pendix J: Main crops grown and yield in Gardez district (Cont..)

No	Main village	Sub village	Irr. wheat (S/J)	R_fed wheat (S/J)	Rice (S/J)	Maize (S/J)	Barley (S/J)	Onion (S/J)	Pota toes (S/J)	Toma toes (S/J)	Bean (S/J)	Mung bean (S/J)	Apple (S/T)	Apricot (S/T)	Grape (S/T)	Pomeg-ranates (S/T)	Walnut (S/T)	Mul berry (S/T)
5	Mohd Raza Khel		40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Mumray		60	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0
7	Niazi Qala		70	0	0	80	0	0	0	0	0	0	0	0	0	0	0	0
8	Nisti Kot	Kuz Nistikot	60	0	0	55	0	0	0	0	0	0	0	0	0	0	0	0
9	Nistikot	Bar Nistikot	55	0	0	50	0	0	0	0	15	0	4	7	0	0	0	0
0	Pushta		60	0	0	40	0	150	260	0	0	0	4	6	0	0	0	0
1	Qala-e-Arjal		60	0	0	80	0	0	0	0	0	0	0	0	0	0	0	0
2	Qala-e-Dahbashi		70	0	0	55	0	100	120	0	0	0	0	3	0	0	0	0
3	Qala-e-Halim		50	30	0	60	0	0	0	0	0	0	0	0	0	0	0	0
4	Qala-e-Sarsang		80	0	0	70	0	0	300	0	0	0	0	7	0	0	0	0
5	Qala-e-Sayedan		30	0	0	20	0	0	0	200	20	0	4	3	0	0	0	0
6	Qala-e-Zargar		60	0	100	80	0	200	400	0	40	0	5	12	0	0	0	0
7	Rabat	Rabat	80	0	0	90	0	0	250	0	0	0	3	5	0	0	0	0
8	Rabat	Shah-e-Qadam	60	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0
9	Sadat Khel		50	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0
0	Saidan	Mashayan	100	0	0	50	0	0	200	0	0	0	0	0	0	0	0	0
1	Saparai		60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Sarkary Qala		65	0	0	50	0	0	0	0	0	8	0	0	0	0	0	0
3	Sepahi Khel		50	0	0	40	0	200	350	0	10	0	0	0	0	0	0	0
4	Shahr-e-Naw		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Shekhan		60	0	0	50	30	0	0	0	0	0	0	0	0	0	0	0
6	Shekhan		80	0	0	60	0	150	170	0	0	0	5	0	0	0	0	3
7	Shekhan		60	40	0	40	0	250	300	0	0	0	5	8	0	3	0	0
8	Talbi Khel		60	0	0	40	0	0	0	0	0	0	0	8	0	0	0	0
9	Teray	Azad Khan Khel	40	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0
0	Teray	Bagho Kalay	40	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0
1	Teray	Charmakhkay	70	0	0	55	0	0	0	0	0	0	0	5	0	0	0	0
2	Teray	Fazal Qala	40	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0
3	Teray	Ghafur Khel	30	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Teray	Kuz Lewan	50	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0
5	Teray	Lewanian	50	0	0	40	0	0	0	0	0	0	0	4	0	0	0	0
6	Teray	Lewan	40	0	30	0	0	0	0	0	0	0	0	6	0	0	0	0

pendix J: Main crops grown and yield in Gardez district (Cont..)

No	Main village	Sub village	Irr. wheat (S/J)	R_fed wheat (S/J)	Rice (S/J)	Maize (S/J)	Barley (S/J)	Onion (S/J)	Pota toes (S/J)	Toma toes (S/J)	Bean (S/J)	Mung bean (S/J)	Apple (S/T)	Apricot (S/T)	Grape (S/T)	Pomeg-ranates (S/T)	Walnut (S/T)	Mul berry (S/T)
7	Teray	Momin Khel	65	10	0	60	0	0	0	0	0	0	5	6	0	0	0	0
8	Teray	Nawrakay	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Teray	Samad Khel	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	Teray	Spina Qala	60	0	80	40	0	0	0	0	0	0	0	0	0	0	0	0
1	Teray	Sra Qala	50	0	0	40	0	0	0	0	10	0	0	3	4	0	0	0
2	Teray	Tandan	40	0	0	0	0	0	200	0	0	0	0	0	0	0	0	0
3	Teray	Tarkanan	70	0	0	60	0	0	0	0	40	0	6	8	0	0	0	0
4	Teray	Woch Khakh	30	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Utmanay		50	0	0	60	0	0	300	0	30	0	0	0	0	0	0	0
6	Woch Gharak		45	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Zawa		50	20	0	40	0	0	0	0	18	0	3	5	0	0	0	0

pendix J1: Main crops grown and yield in Sayed Karam district

No	Main village	Sub village	Irr. wheat (S/J)	R_fed wheat (S/J)	Rice (S/J)	Maize (S/J)	Barley (S/J)	Onion (S/J)	Pota toes (S/J)	Toma toes (S/J)	Bean (S/J)	Mung bean (S/J)	Apple (S/T)	Apricot (S/T)	Grape (S/T)	Pomeg-ranates (S/T)	Walnut (S/T)	Mul berry (S/T)
1	Ahmad Shah Khel		40	0	0	60	0	0	80	0	0	0	5	6	0	0	0	0
2	Andwam		50	20	0	40	0	0	0	0	0	0	4	5	0	0	4	0
3	Arab Khel		30	0	0	25	0	0	200	0	0	0	0	0	0	0	0	0
4	Ashpan		60	10	0	70	70	0	200	0	0	0	4	5	0	0	0	0
5	Bar Sejenak		80	0	0	70	70	0	200	0	30	0	0	7	0	0	0	0
6	Bar Sejenak	Alamgay	80	0	0	70	0	0	300	0	0	0	0	3	0	0	0	0
7	Batyan Khel		50	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0
8	Cher Rakay		40	0	0	45	0	0	150	0	0	0	6	7	0	0	0	0
9	Chino	Chino	80	0	0	70	0	0	200	0	0	0	10	7	0	0	0	0
0	Chinosar	Chino Sar	50	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	Chino	Durrani	70	0	0	80	0	0	200	0	30	0	4	10	0	0	0	0
2	Dam	Ayubi	30	10	0	30	0	0	60	0	0	0	0	0	0	0	0	0
3	Dam	Khogory	80	20	0	100	0	0	200	0	0	0	0	9	0	0	0	0
4	Dam	Miral Khel	25	10	0	40	0	0	0	0	0	0	6	0	0	0	0	0
5	Dawlat Khel		60	0	0	70	0	0	140	0	0	0	0	0	0	0	0	0
6	Gharak	Talkhan	40	0	0	30	0	0	0	0	0	0	0	6	0	0	0	0
7	Ghonday		30	5	0	40	0	0	80	0	0	0	0	0	0	0	0	0
8	Ghwareza		60	20	0	55	0	0	0	0	0	0	0	0	0	0	0	0
9	Gud Mangal Qala		60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	Isa Khel		50	0	0	60	0	160	250	0	15	0	10	8	0	0	0	0
1	Jangi Khel		60	0	0	70	0	0	200	0	0	0	0	0	0	0	0	0
2	Kalgar	Mohd Amin Khel	60	0	0	80	0	0	200	0	20	0	0	5	0	0	0	0
3	Kamran Khel		40	0	0	50	0	0	150	0	0	0	5	8	0	0	0	0
4	Karezgay		50	20	0	40	0	0	0	0	0	0	4	5	0	0	0	0
5	Kerkin	Gorandi Shekhan	80	20	60	60	0	0	0	0	0	0	10	6	0	0	10	0
6	Kerkin	Jan Ghunday	80	0	0	70	0	0	250	0	25	0	5	0	0	0	5	0
7	Kerkin	Selarai	60	15	50	50	0	0	0	0	20	0	5	4	1	0	6	0
8	Kerkin	Sru Kholeh	40	20	0	30	0	0	100	0	0	0	5	6	0	0	6	0
9	Kerkin	Sur Petaw	75	17	30	80	0	0	0	0	0	0	7	0	0	0	8	0
0	Kerkin	Wocha Lagada	75	15	0	70	0	0	150	0	0	0	6	3	0	0	0	0
1	Kerkin Kholeh		80	0	100	0	0	0	200	0	20	0	7	0	0	0	6	0
2	Khanak Khel		50	0	0	55	0	0	250	0	0	0	0	0	0	0	0	0

pendix J1: Main crops grown and yield in Sayed Karam district (Cont..)

No	Main village	Sub village	Irr. wheat (S/J)	R_fed wheat (S/J)	Rice (S/J)	Maize (S/J)	Barley (S/J)	Onion (S/J)	Potatoes (S/J)	Tomatoes (S/J)	Bean (S/J)	Mung bean (S/J)	Apple (S/T)	Apricot (S/T)	Grape (S/T)	Pomegranates (S/T)	Walnut (S/T)	Mulberry (S/T)
3	Khand Khel	Khand Khel	70	0	0	60	60	0	280	0	0	0	4	3	0	0	0	0
4	Khand Khel	Lalak Kalay	90	0	0	60	0	0	100	0	0	0	0	0	0	0	0	0
5	Khawajar Khel		60	0	0	70	0	200	300	0	50	0	0	0	0	0	0	0
6	Kosin	Bar Khano Khel	55	0	0	60	0	140	250	0	0	0	5	15	0	0	0	0
7	Kosin	Gorgori Qala	60	0	0	70	0	0	150	0	20	0	3	5	0	0	0	0
8	Kosin	Kalgar	80	0	0	60	0	0	0	0	0	0	5	3	0	0	0	0
9	Kosin	Khoshal Khel	70	15	0	65	0	0	0	0	0	0	0	3	0	0	0	0
0	Kosin	Kuz Khano Khel	60	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0
1	Kosin	Masak Karez	60	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0
2	Kosin	Shayasta Kalay	90	0	0	100	0	0	0	0	0	0	0	5	0	0	0	0
3	Kosin	Shekhan	65	20	0	70	0	0	150	0	20	0	5	4	0	0	0	0
4	Kotkay		60	0	0	80	0	150	200	240	15	0	3	8	0	0	0	0
5	Koz Feroz Khel		60	0	0	50	0	0	180	0	0	0	5	8	0	0	0	0
6	Kunder Khel		50	10	60	70	0	0	200	0	0	0	10	7	0	0	0	0
7	Kuz Sejenak	Kuz Sejenak	75	0	0	80	0	170	230	0	0	0	0	3	0	0	0	0
8	Kuz Sejenak	Tarai	80	0	0	70	0	0	0	0	0	0	0	5	0	0	0	0
9	Machal Ghu	Akbar Khel	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	Machal Ghu	Babakrey	40	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0
1	Machal Ghu	Bazu Khel	45	10	0	0	0	0	0	0	0	0	0	5	0	0	0	0
2	Machal Ghu	Gandir Khel	40	15	0	50	0	0	0	0	0	0	0	0	0	0	0	0
3	Machal Ghu	Godian	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Machal Ghu	Hassan Qala	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Machal Ghu	Lewan	20	0	0	0	0	0	0	0	0	0	5	8	0	0	0	0
6	Machal Ghu	Mado Khel	40	0	0	70	0	0	0	0	0	0	0	10	0	0	0	0
7	Machal Ghu	Mamozai	60	0	0	70	0	0	160	0	0	0	8	10	0	0	0	0
8	Machal Ghu	Mulla Khel	60	0	0	80	0	0	120	0	0	0	10	8	0	0	0	0
9	Machal Ghu	Nagram	50	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0
0	Machal Ghu	Nandar Khel	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
1	Machal Ghu	Nora Khel	40	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0
2	Machal Ghu	Pala Khel	60	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0
3	Machal Ghu	Salim Khan Khel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Machal Ghu	Sayed Khel	60	0	0	80	0	0	300	0	0	0	6	8	0	0	0	0

pendix J1: Main crops grown and yield in Sayed Karam district (Cont..)

No	Main village	Sub village	Irr. wheat (S/J)	R_fed wheat (S/J)	Rice (S/J)	Maize (S/J)	Barley (S/J)	Onion (S/J)	Pota toes (S/J)	Toma toes (S/J)	Bean (S/J)	Mung bean (S/J)	Apple (S/T)	Apricot (S/T)	Grape (S/T)	Pomeg-ranates (S/T)	Walnut (S/T)	Mul berry (S/T)
5	Machal Ghu	Spina Qala	50	10	0	60	0	0	0	0	0	0	0	5	0	0	0	0
6	Machal Ghu	Taro Khel	40	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Machal Ghu	Toor Khel	10	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0
8	Machal Ghu	Wach Khakh Qala	30	20	0	40	0	0	80	0	0	0	6	10	0	0	0	0
9	Mawroz Khel		60	0	0	70	0	0	150	0	30	0	0	0	0	0	0	0
0	Merzaka	Azad Khel	70	0	0	80	0	0	300	0	15	0	4	3	0	0	0	0
1	Merzaka	Batay	50	10	0	40	0	0	0	0	0	0	4	5	0	0	0	0
2	Merzaka	Chanja Khwar	75	0	0	80	0	0	200	0	18	0	7	5	0	0	0	0
3	Merzaka	Chungay	80	5	0	100	0	0	0	0	0	0	6	7	0	0	0	0
4	Merzaka	Garamay	85	30	0	60	0	0	300	0	0	0	4	3	0	0	0	0
5	Merzaka	Ghonzay	95	13	0	70	0	0	130	0	0	0	5	0	0	0	0	0
6	Merzaka	Hajiyan	50	20	0	40	0	0	0	0	0	0	3	0	0	0	0	0
7	Merzaka	Kajeray	80	40	0	70	0	0	200	0	40	0	4	6	0	0	0	0
8	Merzaka	Khalilan	75	10	0	80	0	200	210	0	0	0	4	3	0	0	0	0
9	Merzaka	Nora China	40	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0
0	Merzakay	Serkay Tanga	86	17	0	70	0	0	180	0	0	0	5	4	0	0	0	0
1	Mia Khel		50	0	0	60	0	0	200	0	0	0	0	0	0	0	0	0
2	Naray Kalay		40	0	0	50	0	0	100	0	0	0	0	0	0	0	0	0
3	Nigram	Ainuddin Qala	70	0	0	80	0	0	0	0	30	0	5	0	0	0	0	0
4	Osman Khel	Mach	60	20	0	70	0	0	130	0	0	0	0	12	0	0	0	0
5	Osman Khel	Raza Khel	40	15	0	0	0	0	0	0	0	0	0	10	0	0	0	0
6	Qader Khel		50	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0
7	Shamsherabad		85	0	80	100	0	0	0	0	0	0	8	10	0	0	0	0
8	Salam Khel	Afzal Khel	70	0	0	80	0	100	300	0	0	0	4	8	0	0	0	0
9	Salam Khel	Bike Khel	50	10	60	100	0	0	150	0	0	0	10	6	0	0	0	0
0	Salam Khel	Salu Khel	70	0	60	80	0	0	0	0	0	0	5	0	0	0	0	0
1	Salam Khel	Sra Qala	60	0	80	70	0	150	140	0	10	0	8	10	0	0	0	0
2	Salam Khel	Sur Sang	60	40	80	50	0	150	250	0	40	0	0	0	0	0	0	0
3	Salemi Nargay		80	10	0	70	0	0	0	0	30	0	0	0	0	0	4	0
4	Sarwar Qala		70	0	0	8	0	100	250	0	0	0	0	8	0	0	0	0
5	Sayed Khel		60	0	75	85	0	0	220	0	20	0	5	8	0	0	0	0
6	Serkay Malang		50	0	0	40	0	100	300	0	0	0	0	7	0	0	0	0

pendix J1: Main crops grown and yield in Sayed Karam district (Cont..)

No	Main village	Sub village	Irr. wheat (S/J)	R_fed wheat (S/J)	Rice (S/J)	Maize (S/J)	Barley (S/J)	Onion (S/J)	Pota toes (S/J)	Toma toes (S/J)	Bean (S/J)	Mung bean (S/J)	Apple (S/T)	Apricot (S/T)	Grape (S/T)	Pomeg- ranates (S/T)	Walnut (S/T)	Mul berry (S/T)
7	Sham Ghunday		80	0	0	90	0	0	0	0	26	0	5	0	0	0	4	0
8	Spina Qala		60	40	0	50	0	0	0	0	0	0	0	0	0	0	0	0
9	Sur Sangyan		70	0	0	80	0	0	250	0	0	0	3	5	0	0	0	0
0	Talbi Khel		60	0	60	45	0	0	0	0	0	0	0	0	0	0	0	0
1	Tand Gharak	Ataei Qala	15	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0
2	Tand Gharak	Fazal Khel	80	0	0	70	0	0	0	0	0	0	0	7	0	0	0	0
3	Tand Gharak	Miw Khel	30	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Tand Gharak	Seway	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Tand Gharak	Zundi Khel	60	0	0	70	0	0	0	0	0	0	0	8	0	0	0	0
6	Usman Khel	Esa Khel	60	0	0	8	0	0	250	0	0	0	6	12	0	0	0	0
7	Usman Khel	Lewanian Khel	60	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0
8	Yahya Khel		50	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0
9	Yargul Khel		70	0	0	60	0	0	230	0	0	0	3	6	0	0	0	0

Appendix K: Products taken to market in Gardez district

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
1	Ahangaran		-	-	-	Onion Potato	-	Sheep Cow	-
2	Asalatbeg		-	-	-	Onion Potato	-	Sheep Cow Goat	-
3	Atam Kalay		-	-	Apple	-	-	Goat Sheep Cattle	-
4	Awdakay		-	-	-	-	-	Sheep Goat Donkey	Hashish
5	Bala Deh	Afzal Khel	-	-	-	Potato	-	Sheep Cow	-
6	Bala Deh	Bala Deh	-	Bean	Apple Apricot	Potato	-	Sheep Cow	-
7	Bala Deh	Raies Khel	-	Bean	Apple	Potato	-	Sheep Cow	-
8	Bala Deh	Rodak	Wheat Maize Rice	-	Apple Apricot	-	-	-	-
9	Banozai	Bano zai	-	Bean	-	Potato	-	Sheep Goat Cow	-
10	Banozai	Darabal Kalay	-	Bean Mung Bean	-	-	-	Cow	-

Appendix K: Products taken to market in Gardez district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
11	Banozai	Salar Kalay	Wheat	Mung Bean Bean	-	-	-	-	-
12	Chakan Shekhan		-	-	Apricot	-	-	Cow	-
13	Chawanay	Metran Khel	-	Barley Bean Mung Bean	-	-	-	-	-
14	Chawanay	Pahlawan Khel	-	Barley Bean	-	-	-	Sheep	-
15	Chawanay	Rabati	-	Barley	-	-	-	Sheep Goat Cow	-
16	Dara		Wheat Maize	Lentle	-	Potato	-	-	-
17	Dawlatzai	Habib Khel	-	Bean	Apricot Apple	Potato	-	Sheep Goat Cow	-
18	Dawlatzai	Laghar	-	Bean	-	Potato	-	Sheep Goat Cow	-
19	Dawlatzai	Ali Jan Khel	-	Bean Mung Bean	-	Potato	-	Goat Cattle	Wool

Appendix K: Products taken to market in Gardez district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
20	Dawlatzai	Dray Plari	-	Barley	-	-	-	Sheep	-
21	Dawlatzai	Fathullah	-	Bean	Grape Apricot Apple	Potato Onion	-	-	-
22	Dawlatzai	Gadai Khel	-	-	Watermelon	-	-	Sheep Goat	-
23	Dawlatzai	Gajan	-	Bean	-	Onion Potato	-	Sheep	-
24	Dawlatzai	Ghunday Kalay	-	Bean Mung Bean	Watermelon	-	-	Goat Sheep	Wool
25	Dinar Khel		-	-	Apricot Apple Grape Almond	Potato Onion	-	Sheep Cow	-
26	Doghabad		-	-	-	-	-	-	-
27	Golo Khel		-	-	-	-	-	Goat Sheep Donkey	-
28	Golowall	Bar Golowall	-	-	-	-	-	Cow Sheep Goat Donkey	-
29	Golowall	Kuz Golowall	-	-	-	-	-	Sheep Goat Cow	Wool

Appendix K: Products taken to market in Gardez district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
30	Hemat Khel		-	Bean	-	-	-	-	-
31	Ibrahim Khel	Azami Khel	-	Barley	-	-	-	-	-
32	Ibrahim Khel	Bada Khel	-	Barley	-	-	-	Sheep Goat Cow	Wool
33	Ibrahim Khel	Ghani Qala	-	Barley	-	-	-	Sheep Goat Cow	-
34	Ibrahim Khel	Karama Khel	-	Barley	-	-	-	Cow Sheep Goat	Chicken
35	Ibrahim Khel	Mashad Khel	-	Barley Mung Bean	-	-	-	Sheep	-
36	Ibrahim Khel	Pakhary	-	Mung Bean	-	-	-	Sheep	-
37	Ibrahim Khel	Pirzad Khel	Wheat	Barley Mung Bean	Walnut	-	-	Goat Sheep	
38	Ibrahim Khel	Rahmat Khel	-	-	-	-	-	-	-
39	Ibrahim Khel	Raza Khel	-	Barley	-	-	-	Cow	-
40	Ibrahim Khel	Sadiq Khel	-	Barley	-	Potato	-	Cow Sheep Goat	Chicken
41	Ibrahim Khel	Sarwar Khel	-	-	-	-	-	-	-

3.4 Improved seed, Fertilizer and Agrochemical

Of 118 villages, 71 sowed improved wheat seed. The average seeding rate for wheat was 6 and 5 seer per jerib in Gardez and Sayed Karam districts, respectively. 22 villages reported use of improved maize seed. No village reported the use of improved rice seed (For the name of varieties see table 3.6 and Appendix L-L1).

Table 3.6: Use of improved seed

District	Crops	No. of villages reported	% of villages reported	Average seeding Rate seer/jerib	Name of varieties
Gardez	Wheat	36	33	6	Ataya 85 Inqilab91 Pamir 94 Unknown
	Maize	6	6	3	Sarhad Shaheen Unknown
Sayed Karam	Wheat	35	32	5	Bakhtawar 92 Ataya 85 Parmir 94 Unknown
	Maize	16	15	3	Sarhad Shaheen Unknown

In some villages a number of farmers were not satisfied with an unknown improved wheat seed distributed by unknown NGOs. According to the enumerators' observation, the wheat did not produce spike (i.e. they were still in rosette stage). Therefore, farmers used the crop as fodder for their livestock.

Table 3.7: Use of fertilizer and agrochemical

Fertilizer				Agrochemical		
District	No. of villages reported	Type of fertilizer	Average Price (Afs.) per bag	No. of villages reported	Type of Herbicide	Average Price (Afs.)
Gardez	81	DAP Nitrophos Urea	821500 620000 481000	14	Malathian Metasystox parathion Unknown	1400/CC 300000/Kg 2000 /CC 2500/CC
Sayed Karam	91	DAP Nitrophos Urea	870600 745700 493400	16	Malathian Metasystox Methylparathian Unknown	2500/CC 2500/CC 126200/Lit 2200/CC

Appendix K: Products taken to market in Gardez district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
42	Ibrahim Khel	Tabiban	-	-	-	-	-	-	-
43	Ibrahim Khel	Tan Khan Khel	-	Barley	-	-	-	Goat Sheep	-
44	Ibrahim Khel	Walyan	-	Barley Mung Bean	-	-	-	Sheep	-
45	Karmashi		-	Bean	-	Potato	-	-	-
46	Khan Qala		-	Bean	-	-	-	-	
47	Khataba	Sadiq Khel	-	-	Apple Apricot	Potato Onion	-	Sheep Cow	-
48	Khataba	Shakar Khel	-	-	Apple Apricot	Potato Onion	-	Goat Cow	-
49	Khataba	Shekhano Qala	-	-	-	-	-	-	-
50	Khwaja Hassan	Khwaja Hassan Ulya	-	-	Apricot Apple	Onion Potato	-	-	-
51	Khwaja Hassan	Khwaja Hassan Sufla	-	-	Apricot Apple	Potato	-	-	-
52	Kochi Khel		Wheat Maize	-	Apple	Potato Onion	-	Sheep Cow	-
53	Kwash	Azgana	-	Bean	Apricot Apple	-	-	Sheep	-

Appendix K: Products taken to market in Gardez district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
54	Kwash	Bar Kwash	-	Bean	Apricot Almond	-	-	Sheep Goat	-
55	Kwash	Koz Kwash	-	Bean	-	-	-	Sheep	-
56	Kwash	Pakhari	-	-	-	-	-	-	-
57	Mahmud Qala		-	-	Apple	-	-	Goat Sheep Cow	Wool
58	Malik Khel		-	-	Apricot Apple	Potato	-	Cow Goat Sheep	-
59	Melan	Doaba	-	Bean	-	Potato	-	Sheep Goat	-
60	Melan	Habib Qala	-	Bean	-	-	-	Cow Cattle Goat Sheep	-
61	Melan	Hajiano Kalay	-	Bean	-	Potato Onion	-	Goat Sheep Cow	-
62	Melan	Melan	-	Bean	-	Potato	-	-	-
63	Melan	Shekhan	-	Bean	-	-	-	Sheep Goat	-

Appendix K: Products taken to market in Gardez district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
64	Mia Noor Qala		-	-	-	-	-	Sheep Cow	-
65	Mohd Raza Khel		-	-	-	-	-	Sheep Goat Donkey	-
66	Mumray		-	-	-	-	-	Sheep Cow	-
67	Niazi Qala		-	-	-	-	-	Goat Sheep	-
68	Nisti Kot	Kuz Nistikot	-	-	-	-	-	Goat Sheep Donkey	-
69	Nistikot	Bar Nistikot	-	Bean	-	-	-	Sheep Goat Donkey Cow	Wool
70	Pushta		-	-	Apple Apricot	Onion Potato	-	-	-
71	Qala-e-Arjal		-	-	-	-	-	-	-
72	Qala-e-Dahbashi		-	-	-	-	-	-	-
73	Qala-e-Halim		-	-	-	-	-	Goat Sheep Cow	-
74	Qala-e-Sarsang		-	-	-	Potato	-	-	-

Appendix K: Products taken to market in Gardez district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
75	Qala-e-Sayedan		-	Bean Mung Bean	-	-	Alfalfa	Goat Sheep	Wool
76	Qala-e-Zargar		-	Bean	Apple Apricot	Onion Potato	-	Sheep Cow	-
77	Rabat	Rabat	-	-	Apple Apricot	Potato Onion	-	Sheep Cow	-
78	Rabat	Shah-e-Qadam	-	-	-	-	-	Goat Sheep	-
79	Sadat Khel		-	-	-	-	-	Sheep Goat	Wool
80	Saidan	Mashayan	-	-	-	Potato	-	-	-
81	Saparai		-	-	-	-	-	Sheep Goat	-
82	Sarkary Qala		- -	Barley Mung Bean	-	-	-	Goat Sheep	Wool
83	Sepahi Khel		-	Bean	-	Potato Onion	-	Goat Sheep	-
84	Shahr-e-Naw		-	-	-	-	-	-	-
85	Shekhan		-	Barley	-	-	-	Sheep Cow	Wool

Appendix K: Products taken to market in Gardez district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
86	Shekhan		-	Mung Bean	Apple Watermelon Cucumber	-	-	Cattle	-
87	Shekhan		-	-	Apple	Potato	-	Sheep Goat Cow	Wool
88	Talbi Khel		-	-	-	-	-	Sheep	-
89	Teray	Azad Khan Khel	-	-	-	-	-	-	-
90	Teray	Bagho Kalay	-	-	-	-	-	Goat Sheep Cow	-
91	Teray	Charmakhkay	-	-	-	-	-	Goat Sheep Cow	-
92	Teray	Fazal Qala	-	-	-	-	-	-	-
93	Teray	Ghafur Khel	-	-	-	-	-	-	-
94	Teray	Kuz Lewan	-	-	-	-	-	Cow Sheep Goat	-
95	Teray	Lewanian	-	-	-	-	-	Sheep Goat	-

Appendix K: Products taken to market in Gardez district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
96	Teray	Lewan	-	-	-	-	-	Sheep Goat Cattle	-
97	Teray	Momin Khel	-	-	-	-	-	Sheep Goat Donkey Cow	-
98	Teray	Nawrakay	-	-	-	-	-	Sheep Goat	-
99	Teray	Samad Khel	-	-	-	-	-	Sheep Goat Donkey Cow	-
100	Teray	Spina Qala	Rice	-	-	-	-	-	-
101	Teray	Sra Qala	-	-	-	-	-	Goat Sheep Cattle	-
102	Teray	Tandan	-	-	-	Potato	-	-	Hashish
103	Teray	Tarkanan	-	-	-	-	-	-	-
104	Teray	Woch							
105	Utmanay		-	Bean	-	Potato	-	Goat Sheep Cow	-

Appendix K: Products taken to market in Gardez district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
106	Woch Gharak		-	-	-	-	-	Sheep Goat Cow	-
107	Zawa		-	Bean	-	-	-	Goat Sheep Cow	-

Appendix K1: Products taken to market in Sayed Karam district

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
1	Ahmad Shah Khel		-	-	Apple Apricot	Potato	-	-	-
2	Andwam		-	-	Walnut Apple Apricot	-	-	Cow Sheep Goat	-
3	Arab Khel		-	-	-	Potato	-	-	-
4	Ashpan		-	Barley	-	-	-	-	-
5	Bar Sejenak		-	Barley	-	-	-	Goat Sheep	-
6	Bar Sejenak	Alamgay	-	-	-	-	-	Goat Cattle	-
7	Batyan Khel		-	-	-	-	-	-	-
8	Cher Rakay		-	-	-	-	-	Sheep Goat	-
8	Chino	Durrani	-	Bean	Apple Apricot	Potato	-	Cow Cattle	-
10	Chino	Chino	-	-	-	Potato	-	Sheep Goat Cow Sheep	-
11	Chino	Chino Sar	-	-	-	-	-	Sheep Donkey Cow	Hashish Wool

Appendix K1: Products taken to market in Sayed Karam district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
12	Dam	Ayubi	-	-	-	-	-	Sheep Goat Cow	Wool
13	Dam	Khogory	-	-	Apricot	-	-	Cow Sheep Goat	-
14	Dam	Mir Ail Khel	-	-	-	-	-	Sheep Goat Donkey Cow	-
15	Dawlat Khel		-	-	Potato	-	-	-	-
16	Gharak	Talkhan	-	-	-	-	-	Sheep Goat Cow Donkey	Hashish
17	Ghonday		-	-	-	-	-	Sheep Goat Cow Donkey	Wool
18	Ghwareza		-	-	-	-	-	Cow Sheep Goat	-
19	Gud Mangal Qala		-	-	-	-	-	Cow Sheep	-

Appendix K1: Products taken to market in Sayed Karam district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
20	Isa Khel		-	Bean	Apple Apricot	Potato Onion	-	Goat Sheep Cow	-
21	Jangi Khel		-	-	-	-	-	-	-
22	Kalgar	Mohd Amin Khel	-	Bean	Apricot	Potato	-	Cow Goat Sheep	-
23	Kamran Khel		-	-	Apricot Apple	Potato	-	Cow Sheep Goat	-
24	Karezgay		-	-	-	-	-	Cow Sheep Goat	-
25	Kerkin	Gorandi Shekhan	-	-	Walnut Apple Apricot	-	-	Sheep Goat Cow	Chicken
26	Kerkin	Jan Ghunday	-	Bean	Apple Walnut	-	-	-	-
27	Kerkin	Selarai	-	Bean	Apple Walnut	-	-	Goat Sheep	-
28	Kerkin	Sru Kholeh	-	-	Walnut	Potato	-	Cow Sheep Goat	-

Farmers from 172 villages in the surveyed villages used chemical fertilizer on their crops. The chemical fertilizer used was cited as DAP, Nitrophos and Urea. The application of Malathian, Metasystox, sulphur and another unknown agrochemical was reported by 30 villages (see Table 3.7 and Appendix L-L1).

3.5 Farm Power

The survey confirmed that oxen, tractors and threshers were the main sources of farm power. A total of 88 oxen, 889 tractors and 63 threshers were reported in all areas surveyed (see Table 3.8 and Appendix L-L1).

Table 3.8: Farm power

District	No. of villages surveyed	Total No. of oxen	Avg. No oxen/ village	Total No. of tractors	Avg. No tractor/ village	Total No. of threshers	Avg. No Thresher /village
Gardez	109	16	0	412	3.84	20	0.18
Sayed Karam	109	72	1	477	4.38	43	0.39

4. ILLICIT CROP PRODUCTION

The enumerators faced difficulties in determining the existence of addicts due to the reluctance of the villagers to provide the information. The surveyors did, however, attempt to establish the extent of drug use in the surveyed areas.

Surprisingly no report has been received of opium growing in Gardez or Sayed Karam districts. Growing of hashish was more common in Sayed Karam district, however, three villages of Gardez district reported growing hashish. A total of 63 jeribs of land was under hashish cultivation with an average yield of 17kg per jerib in Sayed Karam. In Gardez district hashish was grown in a total of 630 jeribs of land with an average yield of 11 kg per jerib. A total of 16 hashish addicts in Sayed Karam and three addicts were reported in Gardez district (see Table 4.1 and Appendix N-N1).

Table 4.1 Illicit crop production

District	Illicit crop	No. of villages reported	Total acreage		Average yield		Number of addicted
			jerib	hectare	kg/jerib	kg/hectare	
Gardez	Opium poppy	0	0	0	0	0	0
	Hashish	3	630	126	11	55	3
Sayed Karam	Opium poppy	0	0	0	0	0	0
	Hashish	13	639	128	17	85	16

The main reasons for growing hashish in the surveyed areas were cited as more income followed by low water requirement. It is worth mentioning that because of the Taliban ban on growing hashish in the surveyed areas, hashish production level has become quite low (see Table 4.1 and Appendix N-N1).

Appendix K1: Products taken to market in Sayed Karam district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
29	Kerkin	Sur Petaw	-	-	Walnut Apple	-	-	Goat Sheep	Wool
30	Kerkin	Wocha Lagada	-	-	-	Potato	-	Sheep Goat	Wood
31	Kerkin Kholeh		-	Bean	Apple Walnut	Potato	-	Sheep Goat Cow	-
32	Khanak Khel		-	-	-	-	-	Cow Sheep	-
33	Khand Khel	Khand Khel	-	Barley	-	-	-	Cow Sheep	-
34	Khand Khel	Lalak Kalay	-	-	-	-	-	-	-
35	Khawajar Khel		-	Bean	-	-	-	Sheep Cow	-
36	Kosin	Bar Khano Khel	-	-	Apple Apricot	Potato Onion	-	Cow Cattle Goat Sheep	-
37	Kosin	Gorgori Qala	-	Bean	Apple Apricot	Potato	-	Sheep Goat	-
38	Kosin	Kalgar	-	-	-	-	-	-	-
39	Kosin	Khoshal Khel	-	-	-	-	-	Goat Sheep Cow	-

Appendix K1: Products taken to market in Sayed Karam district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
40	Kosin	Kuz Khano Khel	-	-	-	-	-	Cow Sheep Goat	Chicken
41	Kosin	Masak Karez	-	-	-	-	-	Cow Sheep Goat	-
42	Kosin	Shayasta Kalay	-	-	-	-	-	-	-
43	Kosin	Shekhan	-	Bean	Apple	Potato	-	-	-
44	Kotkay		-	-	Apricot Apple	Onion Potato	-	-	-
45	Koz Feroz Khel		-	-	Apple Apricot	Potato	-	Cattle Cow	-
46	Kunder Khel		-	-	Apple Apricot	Potato	-	Cow Sheep	-
47	Kuz Sejenak	Kuz Sejenak	-	-	-	-	-	Sheep Goat	-
48	Kuz Sejenak	Tarai	-	-	-	-	- -	Goat Sheep	-
49	Machal Ghu	Akbar Khel	-	-	-	-	-	Goat Sheep Cow Cattle	-

Appendix K1: Products taken to market in Sayed Karam district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
50	Machal Ghu	Babakrey	-	-	-	-	-	Sheep Goat	-
51	Machal Ghu	Bazu Khel	-	-	-	-	-	Sheep Goat Cow Donkey	-
52	Machal Ghu	Gandir Khel	-	-	-	-	-	Sheep Goat Cow Donkey	Wool
53	Machal Ghu	Godian	-	-	-	-	-	Goat Sheep Cattle	-
54	Machal Ghu	Hassan Qala	-	-	-	-	-	Sheep Goat Cow Donkey	Wool
55	Machal Ghu	Lewan	-	-	-	-	-	-	-
56	Machal Ghu	Mado Khel	-	-	-	-	-	Goat Sheep Cow Cattle	-
57	Machal Ghu	Mamozai	-	-	-	-	-	-	-
58	Machal Ghu	Mulla Khel	-	-	-	Potato	-	-	Hashish

Appendix K1: Products taken to market in Sayed Karam district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
59	Machal Ghu	Nagram	-	-	-	-	-	Cow Sheep Goat	Hashish
60	Machal Ghu	Nandar Khel	-	-	-	-	-	Sheep Goat Donkey	Hashish
61	Machal Ghu	Nora Khel	-	-	-	-	-	Goat Sheep Cow	-
62	Machal Ghu	Pala Khel	-	-	-	-	-	Sheep Goat Donkey Cow	Hashish Wool
63	Machal Ghu	Salim Khan Khel	-	-	-	-	-	Sheep Cow	-
64	Machal Ghu	Sayed Khel	-	-	-	-	-	Sheep Goat Cow	-
65	Machal Ghu	Spina Qala	-	-	-	-	-	Sheep Goat Cattle Donkey	Wool
66	Machal Ghu	Taro Khel	-	-	-	-	-	Sheep Goat Cow Donkey	Wool

Appendix K1: Products taken to market in Sayed Karam district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
67	Machal Ghu	Toor Khel	-	-	-	-	-	Sheep Cow	Wool Chicken
68	Machal Ghu	Wach Khakh Qala	-	-	Apple Apricot	-	-	Sheep Goat	-
69	Mawroz Khel		-	Bean	-	Potato	-	Cow	-
70	Merzaka	Azad Khel	-	Bean	-	-	-	Goat Cattle	-
71	Merzaka	Batay	-	-	Apple Apricot	-	-	Cow Sheep Goat	-
72	Merzaka	Chanjan Khwar	-	Bean	Apple Apricot	-	-	Cow	-
73	Merzaka	Chungay	-	-	-	-	-	-	-
74	Merzaka	Garamay	-	-	Apple Apricot	Potato	-	Goat Sheep	Wool
75	Merzaka	Ghonzay	-	-	-	-	-	Cow Cattle	-
76	Merzaka	Hajiyan	-	-	Apple	-	-	Cow Sheep Goat	-
77	Merzaka	Kajeray	-	Bean	-	Potato	-	Cow Sheep Goat	-

Appendix K1: Products taken to market in Sayed Karam district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
78	Merzaka	Khalilan	-	-	-	Potato Onion	-	Cattle	-
79	Merzaka	Nora China	-	-	-	-	-	Sheep Goat Cow	-
80	Merzakay	Serkay Tanga	-	Mung Bean	-	-	-	Cattle Sheep	Wood
81	Mia Khel		-	-	-	Potato	-	-	-
82	Naray Kalay		-	-	-	Potato	-	Sheep Goat	-
83	Nigram	Ainuddin Qala	-	-	-	-	-	-	-
84	Osman Khel	Mach	-	-	Apricot	-	-	Cow Sheep	-
85	Osman Khel	Raza Khel	-	-	-	-	-	Cow Sheep	-
86	Qader Khel		-	-	-	-	-	Cow Sheep	-
87	Shamsherabad		-	-	Apple Apricot	-	-	Cow Sheep	-
88	Salam Khel	Afzal Khel	-	-	Apricot Apple	Onion Potato	-	-	-
89	Salam Khel	Bike Khel	-	-	Apple Apricot	-	-	-	-

Appendix K1: Products taken to market in Sayed Karam district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
90	Salam Khel	Salu Khel	-	-	Apple	Onion	-	Oxen Sheep	-
91	Salam Khel	Sra Qala	-	Bean	Apple Apricot	Onion Potato	-	Cattle Sheep Goat	-
92	Salam Khel	Sur Sang	-	Bean	-	Onion Potato	-	Sheep Cow	-
93	Salemi Nargay		-	Bean	Walnut	-	-	Sheep	-
94	Sarwar Qala		-	-	Apricot	Potato Onion	-	Sheep Goat	-
95	Sayed Khel		-	Bean	-	Potato	-	Cow Sheep	-
96	Serkay Malang		-	-	Apricot	Potato Onion	-	Sheep	-
97	Sham Ghunday		-	Bean	Apple	-	-	Sheep Goat	-
98	Spina Qala		-	-	-	-	-	Sheep Cow	-
99	Sur Sangyan		-	-	Apple Apricot	Potato	-	-	-
100	Talbi Khel		-	-	-	-	-	Sheep Cow	-
101	Tand Gharak	Ataei Qala	-	-	-	-	-	-	-

Appendix K1: Products taken to market in Sayed Karam district (Cont..)

S/No.	Main village	Sub village	Cereals	Pulses	Fruit	Vegetables	Crafts	Animals	Others
102	Tand Gharak	Fazal Khel	-	-	-	-	-	Goat Sheep Cattle Donkey	-
103	Tand Gharak	Miw Khel	-	-	-	-	-	-	-
104	Tand Gharak	Seway	-	-	-	-	-	Sheep Goat Cow	-
105	Tand Gharak	Zundi Khel	-	-	-	-	-	Goat Sheep Donkey Cattle	-
106	Usman Khel	Esa Khel	-	-	Apple Apricot	Potato	-	-	-
107	Usman Khel	Lewanian Khel	-	-	-	-	-	Cow Sheep Goat	-
108	Yahya Khel		-	-	-	-	-	Goat Sheep Cow	-
109	Yargul Khel		-	-	Apple Apricot	Potato	-	-	-

Appendix L: Farm power, use of improved seed, fertilizer and agrochemical in Gardez district

S/No	Main village	Sub village	No. of farm power: Oxen	Tractor	Thresher	Improved seed varieties – Wheat – Varieties: A	B	C	D	Wheat Sowing rate (S/J)	Maize – Varieties: E	F	G	H	Maize Sowing rate (S/J)	Use of Fertilizer: I	J	K	Use of Agrochemical: L	M	N	O	P	Q
1	Ahangaran		0	2	0	√	-	√	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
2	Asalatbeg		0	0	0	√	-	-	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
3	Atam Kalay		0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	√	-	-	-	-	-
4	Awdakay		0	15	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
5	Bala Deh	Afzal Khel	0	1	0	√	-	-	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
6	Bala Deh	Bala Deh	0	4	1	√	-	√	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
7	Bala Deh	Raies Khel	0	3	0	√	-	√	-	6.0	√	-	-	-	2.0	√	√	-	-	-	-	-	-	-
8	Bala Deh	Rodak	0	9	5	√	-	√	-	4.5	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
9	Banozai	Banozai	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
10	Banozai	Darabal Kalay	0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
11	Banozai	Salar Kalay	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
12	Chakan Shekhan		0	1	0	√	√	-	-	5.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
13	Chawanay	Metran Khel	0	9	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	√	-	-	-
14	Chawanay	Pahlawan Khel	0	6	0	√	-	-	-	4.0	-	-	-	-	0.0	-	-	-	-	-	-	-	√	-
15	Chawanay	Rabati	0	6	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
16	Dara		0	4	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
17	Dawlatzai	Habib Khel	0	2	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
18	Dawlatzai	Laghar	0	7	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
19	Dawlatzai	Ali Jan Khel	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
20	Dawlatzai	Dray Plari	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
21	Dawlatzai	Fathullah	0	4	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	√	-	-	-	-	-
22	Dawlatzai	Gadai Khel	0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
23	Dawlatzai	Gajan	0	6	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
24	Dawlatzai	Ghunday Kalay	0	3	1	-	-	-	-	0.0	-	-	-	-	0.0	√	-	√	-	-	-	-	-	-

Appendix L: Farm power, use of improved seed, fertilizer and agrochemical in Gardez district (Cont..)

S/No	Main village	Sub village	No. of farm power: Oxen	Tractor	Thresher	Improved seed varieties: Wheat: Varieties A	B	C	D	Sowing rate (S/J)	Maize: Varieties E	F	G	H	Sowing rate (S/J)	Use of: Fertilizer I	J	K	Agrochemical L	M	N	O	P	Q
25	Dinar Khel		0	10	0	√	-	-	-	6.0	-	√	-	-	3.0	√	√	-	√	-	-	-	-	-
26	Doghabad		0	2	0	√	-	-	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
27	Golo Khel		0	7	0	√	-	-	-	4.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
28	Golowall	Bar Golowall	4	2	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
29	Golowall	Kuz Golowall	0	7	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
30	Hemat Khel		0	3	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	√	-	-	-	-	-
31	Ibrahim Khel	Azami Khel	0	2	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
32	Ibrahim Khel	Bada Khel	0	4	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
33	Ibrahim Khel	Ghani Qala	0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
34	Ibrahim Khel	Karama Khel	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
35	Ibrahim Khel	Mashad Khel	0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
36	Ibrahim Khel	Pakhary	0	2	1	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
37	Ibrahim Khel	Pirzad Khel	0	6	2	√	-	-	-	4.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
38	Ibrahim Khel	Rahmat Khel	0	11	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
39	Ibrahim Khel	Raza Khel	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
40	Ibrahim Khel	Sadiq Khel	0	6	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
41	Ibrahim Khel	Sarwar Khel	0	4	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
42	Ibrahim Khel	Tabiban	0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
43	Ibrahim Khel	Tan Khan Khel	0	3	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
44	Ibrahim Khel	Walyan	0	2	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
45	Karmashi		0	5	0	√	-	-	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
46	Khan Qala		0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
47	Khataba	Sadiq Khel	0	15	0	-	-	-	-	4.5	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
48	Khataba	Shakar Khel	0	6	1	√	-	√	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
49	Khataba	Shekhano Qala	0	5	0	√	-	-	-	7.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-

Table 4.2: Main reasons for growing illicit crops

Major reasons for growing illicit crop	No. of villages replied	
	Gardez	Sayed Karam
More income	2	5
Low water requirement	2	2

5. IRRIGATION SOURCES

Karez was the foremost source of irrigation water in Gardez irrigating 39% of the total land. Canal/stream water followed by spring water irrigated 37% and 22% of the cultivated land, respectively. While wells irrigated only two percent of the land (see Table 5.1 and Appendix O-O1).

Table 5.1: Irrigation water sources

District	Irrigation water sources	No. of villages reported	% of land irrigated By	Flow status cited by villagers as	
				normal	abnormal
Gardez	Canal/stream	50	37	3	47
	Karez	60	39	2	58
	Spring	34	22	2	32
	Wells	11	2	10	1
Sayed Karam	Canal/stream	34	25	2	32
	Karez	53	36	0	53
	Spring	56	39	8	48
	Wells	3	0	3	0

In Sayed Karam springs were the most important source of irrigating water followed by karezes irrigating 39% and 36% of the irrigated land. Canals/streams irrigated 25 % of the land.

It is worth mentioning that at the time of survey the surveyed area along with other parts of Afghanistan were severely affected by drought. As a result, 60% of the level of water flow has become lower than usual. The highest replies for abnormality of water flow was recorded for karezes in both Gardez and Sayed Karam districts. Most other villages using springs and canals for irrigation, had problems with abnormality of water flow.

While people were asked for the activities needed for the normal operation of the irrigation water sources, they mentioned canal cleaning, construction of diversion dams, repairing of related structures, protection walls, cleaning and extension of karez channels, cleaning of springs karez wells and construction of reservoirs (see Table 5.2 and Appendix O-O1).

Appendix L: Farm power, use of improved seed, fertilizer and agrochemical in Gardez district (Cont..)

S/No	Main village	Sub village	No. of farm power: Oxen	Tractor	Thresher	Improved seed varieties: Wheat Varieties A	B	C	D	Wheat Sowing rate (S/J)	Maize Varieties E	F	G	H	Maize Sowing rate (S/J)	Use of Fertilizer I	J	K	Use of Agrochemical L	M	N	O	P	Q
50	Khwaja Hassan	Khwaja Hassan Ulya	0	2	0	-	-	-	√	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
51	Khwaja Hassan	Khwaja Hassan Sufla	0	2	0	√	-	√	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
52	Kochi Khel		4	12	0	√	-	√	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
53	Kwash	Azgana	4	1	1	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
54	Kwash	Bar Kwash	0	5	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
55	Kwash	Koz Kwash	0	4	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
56	Kwash	Pakhari	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
57	Mahmud Qala		0	7	0	√	-	-	-	6.0	-	-	-	-	0.0	√	√	-	√	-	-	-	-	-
58	Malik Khel		0	6	1	√	-	√	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
59	Melan	Doaba	0	4	1	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
60	Melan	Habib Qala	0	4	0	-	-	-	-	0.0	-	-	√	-	4.0	√	√	-	-	-	-	-	-	-
61	Melan	Hajiano Kalay	0	6	0	√	-	√	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
62	Melan	Melan	0	7	2	√	-	-	-	3.5	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
63	Melan	Shekhan	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
64	Mia Noor Qala		0	2	0	√	-	-	-	6.0	-	-	-	-	0.0	√	√	-	√	-	-	-	-	-
65	Mohd Raza Khel		0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
66	Mumray		0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
67	Niazi Qala		0	8	1	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
68	Nisti Kot	Kuz Nistikot	2	2	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	√	-	-	-	-	-
69	Nistikot	Bar Nistikot	0	6	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
70	Pushta		0	7	0	-	-	√	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
71	Qala-e-Arjal		0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
72	Qala-e-Dahbashi		0	3	0	√	-	-	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
73	Qala-e-Halim		0	6	0	√	-	-	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
74	Qala-e-Sarsang		0	3	0	√	-	√	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-

Appendix L: Farm power, use of improved seed, fertilizer and agrochemical in Gardez district (Cont..)

S/No	Main village	Sub village	No. of farm power			Improved seed varieties: Wheat – Varieties				Wheat – Sowing rate (S/J)	Maize – Varieties				Maize – Sowing rate (S/J)	Use of Fertilizer			Use of Agrochemical					
			Oxen	Tractor	Thresher	A	B	C	D		E	F	G	H		I	J	K	L	M	N	O	P	Q
75	Qala-e-Sayedan		0	3	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	√	-	-	-	-
76	Qala-e-Zargar		0	1	0	√	-	-	-	6.0	-	-	√	-	0.0	√	√	-	-	-	-	-	-	-
77	Rabat	Rabat	0	13	0	-	-	-	√	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
78	Rabat	Shah-e-Qadam	0	6	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
79	Sadat Khel		0	7	1	√	-	-	-	6.0	-	-	√	-	3.0	√	√	-	√	-	-	-	-	-
80	Saidan	Mashayan	0	0	0	√	-	√	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
81	Saparai		0	5	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
82	Sarkary Qala		0	4	0	-	-	-	√	5.0	-	-	√	-	2.5	-	-	-	-	-	-	-	-	-
83	Sepahi Khel		0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
84	Shahr-e-Naw		0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
85	Shekhan		0	7	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	√	-	-	-	-	-	-
86	Shekhan		0	7	1	-	-	-	√	6.0	-	-	-	-	0.0	-	√	-	-	-	-	-	-	-
87	Shekhan		0	5	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
88	Talbi Khel		0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	√	-	-	-	-	-
89	Teray	Azad Khan Khel	2	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
90	Teray	Bagho Kalay	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	-	-	-	-	-	-	-
91	Teray	Charmakhkay	0	3	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
92	Teray	Fazal Qala	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
93	Teray	Ghafur Khel	0	2	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	√	-	-	-	-	-	-
94	Teray	Kuz Lewan	0	2	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
95	Teray	Lewanian	0	2	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
96	Teray	Lewan	0	4	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
97	Teray	Momin Khel	0	17	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	√	-	-	-	-	-
98	Teray	Nawrakay	0	2	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
99	Teray	Samad Khel	0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	-	√	-	-	-	-	-

Appendix L: Farm power, use of improved seed, fertilizer and agrochemical in Gardez district (Cont..)

S/No	Main village	Sub village	No. of farm power			Improved seed varieties: Wheat					Improved seed varieties: Maize					Use of: Fertilizer			Use of: Agrochemical					
						Varieties				Sowing rate	Varieties				Sowing rate									
			Oxen	Tractor	Thresher	A	B	C	D	(S/J)	E	F	G	H	(S/J)	I	J	K	L	M	N	O	P	Q
100	Teray	Spina Qala	0	3	1	√	-	-	-	4.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
101	Teray	Sra Qala	0	5	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
102	Teray	Tandan	0	4	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	√	-	-	-	-	-	-
103	Teray	Tarkanan	0	12	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
104	Teray	Woch Khakh	0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
105	Utmanay		0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
106	Woch Gharak		0	8	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
107	Zawa		0	2	0	-	-	√	-	4.5	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-

Wheat varieties: A = Atay85 B = Inqilab91 C = Pamir 94 D = Unknown

Maize varieties: E = Shaheen F = Sarhad G = Unknown

Fertilizer: I = DAP J = Urea K = Nitrophas

Agrochemical: L = Malothien M = Melasytox N = Parathion O = Methylparation P = Unknown Q = Ethylparatian

Appendix L1: Farm power, use of improved seed, fertilizer and agrochemical in Sayed Karam district

S/No	Main village	Sub village	No. of farm power: Oxen	Tractor	Thresher	Improved seed varieties: Wheat: Varieties: A	B	C	D	Wheat: Sowing rate (S/J)	Maize: Varieties: E	F	G	H	Maize: Sowing rate (S/J)	Use of: Fertilizer: I	J	K	Agrochemical: L	M	N	O	P	Q
1	Ahmad Shah Khel		0	2	0	√	√	-	-	5.0	√	-	-	-	4.0	√	√	-	-	-	-	-	-	-
2	Andwam		3	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
3	Arab Khel		0	2	2	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
4	Ashpan		0	1	0	-	-	-	√	5.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
5	Bar Sejena		0	12	0	-	-	-	√	5.0	-	-	√	-	2.5	√	√	-	-	-	-	-	√	-
6	Bar Sejenak	Alamgay	0	2	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
7	Batyan Khel		0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
8	Cher Rakay		0	2	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
9	Chino	Chino	0	10	0	√	-	-	-	6.0	√	-	-	-	3.0	√	√	-	-	-	-	-	-	-
10	Chino	Chino Sar	0	6	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
11	Chino	Durrani	0	4	0	√	-	-	-	5.0	√	-	-	-	3.0	√	√	-	-	-	-	-	√	-
12	Dam	Ayubi	0	9	1	-	-	-	-	0.0	-	-	-	-	0.0	√	-	-	-	-	-	-	-	-
13	Dam	Khogory	6	5	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
14	Dam	Mir Ail Khel	0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
15	Dawlat Khel		0	1	0	-	-	√	-	5.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
16	Gharak	Talkhan	0	10	3	√	-	√	-	5.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
17	Ghonday		0	6	1	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
18	Ghwareza		0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
19	Gud Mangal Qala		0	4	1	√	-	-	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
20	Isa Khel		0	12	1	√	-	√	-	6.0	-	√	-	-	3.0	√	√	-	√	-	-	-	√	-
21	Jangi Khel		0	2	0	√	-	-	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
22	Kalgar	Mohd Amin Khel	0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
23	Kamran Khel		0	2	0	√	-	-	-	5.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
24	Karezgay		0	6	0	-	-	-	-	0.0	-	-	-	-	0.0	√	-	√	-	-	-	-	-	-

Appendix L1: Farm power, use of improved seed, fertilizer and agrochemical in Sayed Karam district (Cont..)

S/No	Main village	Sub village	No. of farm power			Improved seed varieties: Wheat					Improved seed varieties: Maize					Use of: Fertilizer			Use of: Agrochemical					
						Varieties				Sowing rate	Varieties				Sowing rate									
			Oxen	Tractor	Thresher	A	B	C	D	(S/J)	E	F	G	H	(S/J)	I	J	K	L	M	N	O	P	Q
25	Kerkin	Gorandi Shekhan	2	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
26	Kerkin	Jan Ghunday	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	-	√	-	-	-	-	-
27	Kerkin	Selarai	6	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	√	√	-	-	-	-	-
28	Kerkin	Sru Kholeh	2	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
29	Kerkin	Sur Petaw	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	√	-	-	-	-
30	Kerkin	Wocha Lagada	4	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	√	√	-	-	-	-	-
31	Kerkin Kholeh		2	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	-	√	-	-	-	-	-
32	Khanak Khel		0	1	0	√	-	-	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
33	Khand Khel	Khand Khel	0	20	3	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
34	Khand Khel	Lalak Kalay	0	2	0	-	-	-	√	5.0	-	-	√	-	2.5	√	√	-	-	-	-	√	-	-
35	Khawajar Khel		0	8	0	√	-	-	-	6.0	-	-	-	-	0.0	√	√	-	-	-	√	√	-	-
36	Kosin	Bar Khano Khel	20	5	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
37	Kosin	Gorgori Qala	0	4	1	-	-	√	-	5.0	-	-	-	-	0.0	√	√	-	-	-	-	√	-	-
38	Kosin	Kalgar	0	25	3	-	-	-	√	5.0	-	-	√	-	2.5	-	-	-	-	-	-	-	-	-
39	Kosin	Khoshal Khel	0	13	1	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
40	Kosin	Kuz Khano Khel	10	12	1	-	-	-	-	0.0	-	-	-	-	0.0	-	√	√	-	-	-	-	-	-
41	Kosin	Masak Karez	0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
42	Kosin	Shayasta Kalay	0	2	1	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
43	Kosin	Shekhan	0	7	1	-	-	-	-	0.0	-	-	√	-	2.0	√	√	-	-	-	-	-	-	-
44	Kotkay		0	4	1	-	-	√	-	5.0	-	-	√	-	3.0	√	√	-	-	-	-	√	-	-
45	Koz Feroz Khel		0	0	0	-	-	√	-	5.0	-	-	√	-	4.0	√	√	-	-	-	-	-	-	-
46	Kunder Khel		0	20	10	√	-	-	-	6.0	√	-	-	-	3.0	√	√	-	-	-	-	-	-	-
47	Kuz Sejenak	Kuz Sejenak	0	10	0	-	√	-	-	4.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	√
48	Kuz Sejenak	Tarai	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	-	-	-	-	-	-	-

Appendix L1: Farm power, use of improved seed, fertilizer and agrochemical in Sayed Karam district (Cont..)

S/No	Main village	Sub village	No. of farm power: Oxen	Tractor	Thresher	Improved seed varieties: Wheat: Varieties: A	B	C	D	Wheat: Sowing rate (S/J)	Maize: Varieties: E	F	G	H	Maize: Sowing rate (S/J)	Use of: Fertilizer: I	J	K	Agrochemical: L	M	N	O	P	Q
49	Machal Ghu	Akbar Khel	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
50	Machal Ghu	Babakrey	0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
51	Machal Ghu	Bazu Khel	0	8	0	√	-	-	-	5.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
52	Machal Ghu	Gandir Khel	0	5	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
53	Machal Ghu	Godian	0	6	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
54	Machal Ghu	Hassan Qala	0	13	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
55	Machal Ghu	Lewan	4	1	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
56	Machal Ghu	Mado Khel	0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
57	Machal Ghu	Mamozai	0	20	3	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
58	Machal Ghu	Mulla Khel	0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
59	Machal Ghu	Nagram	0	4	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
60	Machal Ghu	Nandar Khel	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
61	Machal Ghu	Nora Khel	0	6	1	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
62	Machal Ghu	Pala Khel	0	5	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
63	Machal Ghu	Salim Khan Khel	0	10	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
64	Machal Ghu	Sayed Khel	0	8	2	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
65	Machal Ghu	Spina Qala	0	17	3	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
66	Machal Ghu	Taro Khel	0	20	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
67	Machal Ghu	Toor Khel	0	4	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
68	Machal Ghu	Wach Khakh Qala	4	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
69	Mawroz Khel		0	0	0	√	-	-	-	5.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
70	Merzaka	Azad Khel	0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	√	-	-	-	-	-	-
71	Merzaka	Batay	0	6	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
72	Merzaka	Chanjan Khwar	3	5	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-

Appendix L1: Farm power, use of improved seed, fertilizer and agrochemical in Sayed Karam district (Cont..)

S/No	Main village	Sub village	No. of farm power: Oxen	Tractor	Thresher	Improved seed varieties: Wheat Varieties A	B	C	D	Wheat Sowing rate (S/J)	Maize Varieties E	F	G	H	Maize Sowing rate (S/J)	Use of Fertilizer I	J	K	Use of Agrochemical L	M	N	O	P	Q
73	Merzaka	Chungay	2	2	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
74	Merzaka	Garamay	0	0	0	-	-	-	√	4.5	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
75	Merzaka	Ghonzay	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
76	Merzaka	Hajiyan	0	4	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	√	-	-	-	-	-	-
77	Merzaka	Kajeray	0	10	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	√	-	-	-	-	-	-
78	Merzaka	Khalilan	0	4	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
79	Merzaka	Nora China	0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
80	Merzakay	Serkay Tanga	0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	-	√	-	-	-	-	-	-	-
81	Mia Khel		0	2	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
82	Naray Kalay		0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
83	Nigram	Ainuddin Qala	0	2	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	√	-
84	Osman Khel	Mach	0	6	1	√	-	-	-	6.0	√	-	-	-	3.0	√	√	-	-	-	-	-	-	-
85	Osman Khel	Raza Khel	0	3	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
86	Qader Khel		0	1	0	√	-	-	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
87	Shamsherabad		0	3	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
88	Salam Khel	Afzal Khel	0	2	0	-	-	-	√	5.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
89	Salam Khel	Bike Khel	0	1	0	√	√	√	-	5.0	√	-	-	-	3.0	√	√	-	-	-	-	-	-	-
90	Salam Khel	Salu Khel	0	1	0	-	-	√	-	5.0	√	-	-	-	4.0	√	√	-	-	-	-	-	-	-
91	Salam Khel	Sra Qala	0	3	0	√	-	√	-	6.0	√	-	-	-	3.0	√	√	-	-	-	-	-	-	-
92	Salam Khel	Sur Sang	0	2	0	√	-	√	-	6.0	-	√	-	-	2.5	√	√	-	-	-	-	-	-	-
93	Salemi Nargay		0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
94	Sarwar Qala		0	3	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
95	Sayed Khel		4	3	0	√	-	-	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
96	Serkay Malang		0	2	0	-	-	√	-	5.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-

Appendix L1:Farm power, use of improved seed, fertilizer and agrochemical in Sayed Karam district (Cont..)

						Improved seed varieties											Use of								
						Wheat					Maize														
			No. of farm power			Varieties				Sowing rate	Varieties				Sowing rate	Fertilizer			Agrochemical						
S/No	Main village	Sub village	Oxen	Tractor	Thresher	A	B	C	D	(S/J)	E	F	G	H	(S/J)	I	J	K	L	M	N	O	P	Q
97	Sham Ghunday		0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	√	-
98	Spina Qala		0	2	0	√	-	-	-	6.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
99	Sur Sangyan		0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
100	Talbi Khel		0	0	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
101	Tand Gharak	Ataei Qala	0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
102	Tand Gharak	Fazal Khel	0	13	1	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
103	Tand Gharak	Miw Khel	0	1	0	-	-	-	-	0.0	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-
104	Tand Gharak	Saway	0	5	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
105	Tand Gharak	Zundi Khel	0	9	1	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
106	Usman Khel	Esa Khel	0	5	0	√	-	-	-	5.0	-	-	-	-	0.0	√	√	-	-	-	-	-	√	-
107	Usman Khel	Lewanian Khel	0	6	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
108	Yahya Khel		0	3	0	-	-	-	-	0.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-
109	Yargul Khel		0	1	0	-	-	-	√	5.0	-	-	-	-	0.0	√	√	-	-	-	-	-	-	-

Wheat varieties: A = Atay85 B = Bakhtawar C = Pamir 94 D = Unknown

Maize varieties: E = Shaheen F = Sarhad G = Unknown

Fertilizer: I = DAP J = Urea K = Nitrophas

Agrochemical: L = Malothien M = Melasytox N = Parathion O = Methylparation

P = Unknown Q = Ethylparatian

Appendix M: Busy time in Gardez district

S/No	Main village	Sub village	Busy time of people in a year											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Ahangaran		-	-	-	√	-	√	√	-	-	√	-	-
2	Asalatbeg		-	-	-	√	√	√	√	-	-	√	√	-
3	Atam Kalay		-	-	-	-	√	√	√	-	-	√	-	-
4	Awdakay		-	-	-	√	-	-	√	-	-	√	√	-
5	Bala Deh	Afzal Khel	-	-	-	√	√	-	-	-	-	√	√	-
6	Bala Deh	Bala Deh	-	-	-	√	√	-	√	-	-	√	√	-
7	Bala Deh	Raies Khel	-	-	-	√	-	-	√	-	-	√	√	-
8	Bala Deh	Rodak	-	-	-	-	√	√	-	-	-	√	√	-
9	Banozai	Bano zai	-	-	-	√	√	√	√	-	-	√	√	-
10	Banozai	Darabal Kalay	-	-	-	√	√	√	√	-	√	√	-	-
11	Banozai	Salar Kalay	-	-	-	√	√	√	√	-	√	√	-	-
12	Chakan Shekhan		-	-	-	√	√	√	√	-	-	√	-	-
13	Chawanay	Metran Khel	-	-	-	-	√	√	√	√	-	√	√	-
14	Chawanay	Pahlawan Khel	-	-	-	√	√	-	√	√	-	√	-	-
15	Chawanay	Rabati	-	-	-	√	-	√	√	-	-	√	√	-
16	Dara		-	-	-	√	√	√	-	√	-	√	-	-
17	Dawlat Zai	Habib Khel	-	-	-	√	-	√	√	-	-	√	-	-
18	Dawlat Zai	Laghar	-	-	-	√	-	√	√	-	-	√	-	-
19	Dawlatzai	Ali Jan Khel	-	-	-	-	-	√	√	-	-	√	√	-
20	Dawlatzai	Dray Plari	-	-	-	√	√	-	√	-	-	√	√	-
21	Dawlatzai	Fathullah	-	-	-	√	√	√	-	√	√	√	-	-
22	Dawlatzai	Gadai Khel	-	-	-	√	√	√	√	√	-	√	-	-
23	Dawlatzai	Gajan	-	-	-	-	√	√	√	-	√	-	-	-
24	Dawlatzai	Ghunday Kalay	-	-	-	-	√	-	√	√	-	√	√	-
25	Dinar Khel		-	-	-	√	√	-	√	-	-	√	-	-
26	Doghabad		-	-	-	√	-	√	√	-	-	√	-	-
27	Golo Khel		-	-	-	-	√	√	√	-	-	√	√	-

Appendix M: Busy time in Gardez district (Cont..)

S/No	Main village	Sub village	Busy time of people in a year											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
28	Golo wall	Bar Golowall	-	-	-	√	-	√	√	-	-	√	-	-
29	Golowall	Kuz Golowall	-	-	-	-	-	√	√	-	-	√	-	-
30	Hemat Khel		-	-	-	-	√	√	√	-	-	√	-	-
31	Ibrahim Khel	Azami Khel	-	-	-	-	√	√	√	-	-	√	-	-
32	Ibrahim Khel	Bada Khel	-	-	-	√	√	-	√	-	-	√	√	-
33	Ibrahim Khel	Ghani Qala	-	-	-	√	√	√	√	-	-	√	-	-
34	Ibrahim Khel	Karama Khel	-	-	-	√	√	-	√	-	-	√	√	-
35	Ibrahim Khel	Mashad Khel	-	-	-	√	√	-	√	-	-	√	√	-
36	Ibrahim Khel	Pakhary	-	-	-	√	√	-	√	-	-	√	√	-
37	Ibrahim Khel	Pirzad Khel	-	-	-	√	√	-	-	-	-	√	√	-
38	Ibrahim Khel	Rahmat Khel	-	-	-	-	-	-	√	√	-	√	√	-
39	Ibrahim Khel	Raza Khel	-	-	-	√	√	√	-	-	-	√	-	-
40	Ibrahim Khel	Sadiq Khel	-	-	-	√	-	√	√	-	-	√	√	-
41	Ibrahim Khel	Sarwar Khel	-	-	-	√	√	-	√	√	-	√	√	-
42	Ibrahim Khel	Tabiban	-	-	-	-	√	-	√	√	-	√	√	-
43	Ibrahim Khel	Tan Khan Khel	-	-	-	√	√	√	√	-	-	√	-	-
44	Ibrahim Khel	Walyan	-	-	-	√	√	-	√	-	-	√	√	-
45	Karmashi		-	-	-	√	-	√	√	-	√	√	-	-
46	Khan Qala		-	-	-	-	-	√	√	-	-	√	-	-
47	Khataba	Sadiq Khel	-	-	-	-	-	√	√	-	-	√	-	-
48	Khataba	Shakar Khel	-	-	-	-	-	√	√	√	-	√	-	-
49	Khataba	Shekhano Qala	-	-	-	-	-	√	√	-	-	√	√	-
50	Khwaja Hassan	Khwaja Hassan Ulya	-	-	-	-	√	-	√	√	-	√	-	-
51	Khwaja Hassan	Khwaja Hassan Sufla	-	-	-	√	-	√	√	-	-	√	-	-
52	Kochi Khel		-	-	-	√	-	-	√	-	-	√	-	-
53	Kwash	Azgana	-	-	-	√	√	√	√	-	-	√	-	-
54	Kwash	Bar Kwash	-	-	-	√	√	√	√	-	√	√	-	-

Table 5.2: Activities needed for normal operation of the irrigation sources

Activities needed for normal operation	No. of villages replied for	
	Gardez	Sayed Karam
Canal/stream		
Canal cleaning	23	13
Construction of diversion dam	14	15
Repairing of related structures	26	16
Protection wall	-	1
Construction of syphone	1	-
Karez		
Repairing of related structures	1	-
Cleaning of karez channel	52	48
Extension of karez channel	29	34
Cleaning of karez wells	56	50
Protection wall	1	1
Spring		
Repairing of related structures	13	19
Cleaning of spring	17	23
Construction of reservoir	3	4
Construction of syphone	1	-
Protection wall	2	4

In Gardez all of the villages reported inadequate amounts of water while in Sayed Karam 93% of villages cited inadequate amounts of water in their irrigation system. Where inadequate, the existing amount of water was cited to meet 31% irrigation requirements in Gardez and 33% in Sayed Karam district (see Table 5.3 and AppendixO-O1). The period of irrigation water shortage in the surveyed area was different depending on the location of surveyed villages (for more details see AppendixO-O1).

Table 5.3: Irrigation water sufficiency

District	No. of villages surveyed	% of villages where irrigation water is		Average % of land for which existed water is enough
		enough	not enough	
Gardez	109	0	100	31
Sayed Karam	109	7	93	33

The main reason for irrigation water shortage was drought reported by 129 villages. Other reasons were recorded as damaged karez and water infiltration in stream (see Table 5.4 and Appendix O-O1).

Appendix M: Busy time in Gardez district (Cont..)

S/No	Main village	Sub village	Busy time of people in a year											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
55	Kwash	Koz Kwash	-	-	-	√	√	-	√	√	-	-	-	-
56	Kwash	Pakhari	-	-	-	√	√	-	√	-	-	√	-	-
57	Mahmud Qala		-	-	-	-	-	√	√	-	-	√	-	-
58	Malik Khel		-	-	-	-	-	-	-	√	-	√	-	-
59	Melan	Doaba	-	-	-	-	-	√	√	-	-	√	-	-
60	Melan	Habib Qala	-	-	-	√	-	-	√	-	-	√	-	-
61	Melan	Hajiano Kalay	-	-	-	-	-	√	√	√	-	√	-	-
62	Melan	Melan	-	-	-	-	-	√	√	-	-	√	-	-
63	Melan	Shekhan	-	-	-	-	-	√	√	-	-	√	√	-
64	Mia Noor Qala		-	-	-	-	√	-	√	-	-	√	-	-
65	Mohd Raza Khel		-	-	-	-	-	√	√	-	-	√	-	-
66	Mumray		-	-	-	√	-	√	-	-	-	-	√	-
67	Niazi Qala		-	-	-	-	-	√	√	√	-	√	-	-
68	Nisti Kot	Kuz Nistikot	-	-	-	-	√	√	√	-	-	√	-	-
69	Nistikot	Bar Nistikot	-	-	-	√	-	√	√	-	-	√	√	-
70	Pushta		-	-	-	-	-	√	√	√	-	√	√	-
71	Qala-e-Arjal		-	-	-	-	-	√	√	√	-	√	√	-
72	Qala-e-Dahbashi		-	-	-	-	-	-	√	√	-	√	√	-
73	Qala-e-Halim		-	-	-	-	-	-	√	-	-	√	-	-
74	Qala-e-Sarsang		-	-	-	√	-	√	√	-	-	√	-	-
75	Qala-e-Sayedan		-	-	-	-	√	-	√	√	-	√	-	-
76	Qala-e-Zargar		-	-	-	-	-	√	√	-	-	√	√	-
77	Rabat	Rabat	-	-	-	-	-	√	√	-	-	√	-	-
78	Rabat	Shah-e-Qadam	-	-	-	√	-	√	√	√	-	√	-	-
79	Sadat Khel		-	-	-	√	√	√	√	-	-	√	-	-
80	Saidan	Mashayan	-	-	-	-	-	√	√	√	-	√	√	-
81	Saparai		-	-	-	√	√	√	√	√	√	√	-	-

Appendix M: Busy time in Gardez district (Cont..)

S/No	Main village	Sub village	Busy time of people in a year											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
82	Sarkary Qala		-	-	-	-	√	√	-	-	-	√	√	√
83	Sepahi Khel		-	-	-	-	-	√	√	√	-	√	-	-
84	Shahr-e-Naw		-	-	-	-	-	-	-	-	-	-	-	-
85	Shekhan		-	-	-	-	-	√	√	√	√	√	-	-
86	Shekhan		-	-	-	√	√	-	√	-	-	√	√	-
87	Shekhan		-	-	-	√	-	√	√	-	-	√	√	-
88	Talbi Khel		-	-	-	-	-	√	√	-	-	√	-	-
89	Teray	Azad Khan Khel	-	-	-	√	-	-	√	-	-	√	-	-
90	Teray	Bagho Kalay	-	-	-	√	-	-	-	-	-	√	√	-
91	Teray	Charmakhkay	-	-	-	√	-	√	√	-	-	√	√	-
92	Teray	Fazal Qala	-	-	-	√	-	-	√	-	-	√	√	-
93	Teray	Ghafur Khel	-	-	-	√	-	-	√	-	-	√	√	-
94	Teray	Kuz Lewan	-	-	-	√	-	-	√	-	-	√	√	-
95	Teray	Lewanian	-	-	-	-	-	√	√	-	-	√	√	-
96	Teray	Lewan	-	-	-	√	-	√	√	-	-	√	√	-
97	Teray	Momin Khel	-	-	-	√	-	-	√	-	-	√	√	-
98	Teray	Nawrakay	-	-	-	-	-	-	√	-	-	√	-	-
99	Teray	Samad Khel	-	-	-	√	√	√	√	-	-	√	-	-
100	Teray	Spina Qala	-	-	-	√	-	-	√	-	-	√	-	√
101	Teray	Sra Qala	-	-	-	√	-	-	√	-	-	√	√	√
102	Teray	Tandan	-	-	-	√	-	-	√	-	-	√	-	√
103	Teray	Tarkanan	-	-	-	-	-	√	√	-	-	√	√	-
104	Teray	Woch Khakh	-	-	-	√	-	-	√	-	-	√	√	-
105	Utmanay		-	-	-	-	-	√	√	-	-	√	-	-
106	Woch Gharak		-	-	-	√	√	√	√	-	-	√	√	-
107	Zawa		-	-	-	-	-	√	√	-	-	√	√	-

Appendix M1: Busy time in Sayed Karam district

S/No	Main village	Sub village	Busy time of people in a year											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Ahmad Shah Khel		-	-	-	√	-	√	√	-	-	√	-	-
2	Andwam		-	-	-	√	√	√	√	-	-	√	√	-
3	Arab Khel		-	-	-	-	√	√	√	√	-	-	-	-
4	Ashpan		-	-	-	√	-	-	√	-	-	√	√	-
5	Bar Sejenak		-	-	-	√	√	-	-	-	-	√	√	-
6	Bar Sejenak	Alamgay	-	-	-	√	√	-	√	-	-	√	√	-
7	Batyan Khel		-	-	-	√	-	-	√	-	-	√	√	-
8	Cher Rakay		-	-	-	√	√	√	√	-	-	√	√	-
9	Chino	Chino	-	-	-	√	√	√	√	-	√	√	-	-
10	Chino	Chino Sar	-	-	-	√	√	√	√	-	√	√	-	-
11	Chino	Durrani	-	-	-	-	√	√	-	-	-	√	√	-
12	Dam	Ayubi	-	-	-	√	√	√	√	-	-	√	-	-
13	Dam	Khogory	-	-	-	-	√	√	√	√	-	√	√	-
14	Dam	Mir Ail Khel	-	-	-	√	√	-	√	√	-	√	-	-
15	Dawlat Khel		-	-	-	√	-	√	√	-	-	√	√	-
16	Gharak	Talkhan	-	-	-	√	√	√	-	√	-	√	-	-
17	Gharak	Zarin Khel	-	-	-	√	-	√	√	-	-	√	-	-
18	Ghonday		-	-	-	√	-	√	√	-	-	√	-	-
19	Ghwareza		-	-	-	-	-	√	√	-	-	√	√	-
20	Gud Mangal Qala		-	-	-	√	√	-	√	-	-	√	√	-
21	Isa Khel		-	-	-	√	√	√	-	√	√	√	-	-
22	Jangi Khel		-	-	-	√	√	√	√	√	-	√	-	-
23	Kalgar	Mohd Amin Khel	-	-	-	-	√	√	√	-	√	-	-	-
24	Kamran Khel		-	-	-	-	√	-	√	√	-	√	√	-
25	Karezgay		-	-	-	√	√	-	√	-	-	√	-	-
26	Kerkin	Gorandi Shekhan	-	-	-	√	-	√	√	-	-	√	-	-
27	Kerkin	Jan Ghunday	-	-	-	-	√	√	-	√	-	-	√	-

Appendix M1: Busy time in Sayed Karam district

S/No	Main village	Sub village	Busy time of people in a year											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
28	Kerkin	Selarai	-	-	-	√	-	√	√	-	-	√	-	-
29	Kerkin	Sru Kholeh	-	-	-	-	-	√	√	-	-	√	-	-
30	Kerkin	Sur Petaw	-	-	-	-	√	√	√	-	-	√	-	-
31	Kerkin	Wocha Lagada	-	-	-	-	√	√	√	-	-	√	-	-
32	Kerkin Kholeh		-	-	-	√	√	-	√	-	-	√	√	-
33	Khanak Khel		-	-	-	√	√	√	√	-	-	√	-	-
34	Khand Khel	Khand Khel	-	-	-	√	√	-	√	-	-	√	√	-
35	Khand Khel	Lalak Kalay	-	-	-	√	√	-	√	-	-	√	√	-
36	Khawajar Khel		-	-	-	√	√	-	√	-	-	√	√	-
37	Kosin	Bar Khano Khel	-	-	-	√	√	-	-	-	-	√	√	-
38	Kosin	Gorgori Qala	-	-	-	-	-	-	√	√	-	√	√	-
39	Kosin	Kalgar	-	-	-	√	√	√	-	-	-	√	-	-
40	Kosin	Khoshal Khel	-	-	-	√	-	√	√	-	-	√	√	-
41	Kosin	Kuz Khano Khel	-	-	-	√	√	-	√	√	-	√	√	-
42	Kosin	Masak Karez	-	-	-	-	√	-	√	√	-	√	√	-
43	Kosin	Shayasta Kalay	-	-	-	√	√	√	-	√	-	-	-	-
44	Kosin	Shekhan	-	-	-	√	√	-	√	-	-	√	√	-
45	Kotkay		-	-	-	√	-	√	√	-	√	√	-	-
46	Koz Feroz Khel		-	-	-	-	-	√	√	-	-	√	-	-
47	Kunder Khel		-	-	-	-	-	√	√	-	-	√	-	-
48	Kuz Sejenak	Kuz Sejenak	-	-	-	-	-	√	√	√	-	√	-	-
49	Kuz Sejenak	Tarai	-	-	-	-	-	√	√	-	-	√	√	-
50	Machal Ghu	Akbar Khel	-	-	-	-	√	-	√	√	-	√	-	-
51	Machal Ghu	Babakrey	-	-	-	√	-	√	√	-	-	√	-	-
52	Machal Ghu	Bazu Khel	-	-	-	√	-	-	√	-	-	√	-	-
53	Machal Ghu	Gandir Khel	-	-	-	√	√	√	√	-	-	√	-	-
54	Machal Ghu	Godian	-	-	-	√	√	√	√	-	√	√	-	-

Appendix M1: Busy time in Sayed Karam district

S/No	Main village	Sub village	Busy time of people in a year											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
55	Machal Ghu	Hassan Qala	-	-	-	√	√	-	√	√	-	-	-	-
56	Machal Ghu	Lewan	-	-	-	√	√	-	√	-	-	√	-	-
57	Machal Ghu	Mado Khel	-	-	-	-	-	√	√	-	-	√	-	-
58	Machal Ghu	Mamozai	-	-	-	-	-	-	-	√	-	√	-	-
59	Machal Ghu	Mulla Khel	-	-	-	-	-	√	√	-	-	√	-	-
60	Machal Ghu	Nagram	-	-	-	√	-	-	√	-	-	√	-	-
61	Machal Ghu	Nandar Khel	-	-	-	-	-	√	√	√	-	√	-	-
62	Machal Ghu	Nora Khel	-	-	-	-	-	√	√	-	-	√	-	-
63	Machal Ghu	Pala Khel	-	-	-	-	-	√	-	√	-	-	√	-
64	Machal Ghu	Salim Khan Khel	-	-	-	-	√	-	√	-	-	√	-	-
65	Machal Ghu	Sayed Khel	-	-	-	-	-	√	√	-	-	√	-	-
66	Machal Ghu	Spina Qala	-	-	-	√	-	√	-	-	-	-	√	-
67	Machal Ghu	Taro Khel	-	-	-	-	-	√	√	√	-	√	-	-
68	Machal Ghu	Toor Khel	-	-	-	-	√	√	√	-	-	√	-	-
69	Mawroz Khel		-	-	-	√	-	√	√	-	-	√	√	-
70	Merzaka	Azad Khel	-	-	-	-	-	√	√	√	-	√	√	-
71	Merzaka	Batay	-	-	-	-	-	√	√	√	-	√	√	-
72	Merzaka	Chanjan Khwar	-	-	-	-	-	-	√	√	-	√	√	-
73	Merzaka	Chungay	-	-	-	-	-	-	√	-	-	√	-	-
74	Merzaka	Garamay	-	-	-	√	-	√	√	-	-	√	-	-
75	Merzaka	Ghonzay	-	-	-	-	√	-	√	√	-	√	-	-
76	Merzaka	Hajiyan	-	-	-	-	-	√	√	-	-	√	√	-
77	Merzaka	Kajeray	-	-	-	-	-	√	√	-	-	√	-	-
78	Merzaka	Khalilan	-	-	-	√	-	√	√	√	-	√	-	-
79	Merzaka	Nora China	-	-	-	√	√	√	√	-	-	√	-	-
80	Merzakay	Serkay Tanga	-	-	-	-	-	√	√	√	-	√	√	-
81	Mia Khel		-	-	-	√	√	√	√	√	√	√	√	-

Appendix M1: Busy time in Sayed Karam district

S/No	Main village	Sub village	Busy time of people in a year											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
82	Naray Kalay		-	-	-	-	√	√	-	-	-	-	√	√
83	Nigram	Ainuddin Qala	-	-	-	-	-	√	√	√	-	√	-	-
84	Osman Khel	Mach	-	-	-	-	-	-	-	-	-	-	-	-
85	Osman Khel	Raza Khel	-	-	-	-	-	√	√	√	√	√	-	-
86	Qader Khel		-	-	-	√	√	-	√	-	-	√	√	-
87	Shamsherabad		-	-	-	√	-	√	√	-	-	√	√	-
88	Salam Khel	Afzal Khel	-	-	-	-	-	√	√	-	-	√	-	-
89	Salam Khel	Bike Khel	-	-	-	√	-	-	√	-	-	-	-	-
90	Salam Khel	Salu Khel	-	-	-	√	-	-	-	-	-	√	√	-
91	Salam Khel	Sra Qala	-	-	-	√	-	√	√	-	-	√	√	-
92	Salam Khel	Sur Sang	-	-	-	√	-	-	√	-	-	√	√	-
93	Salemi Nargay		-	-	-	√	-	-	√	-	-	√	√	-
94	Sarwar Qala		-	-	-	√	-	-	√	-	-	√	√	-
95	Sayed Khel		-	-	-	-	-	√	√	-	-	√	√	-
96	Serkay Malang		-	-	-	√	-	√	-	√	-	-	√	-
97	Sham Ghunday		-	-	-	√	-	-	√	-	-	√	√	-
98	Spina Qala		-	-	-	-	-	-	√	-	-	√	-	-
99	Sur Sangyan		-	-	-	√	√	√	√	-	-	√	-	-
100	Talbi Khel		-	-	-	√	-	-	√	-	-	√	-	√
101	Tand Gharak	Ataei Qala	-	-	-	√	-	-	√	-	-	√	√	√
102	Tand Gharak	Fazal Khel	-	-	-	√	-	-	√	-	-	-	-	√
103	Tand Gharak	Miw Khel	-	-	-	-	-	√	√	-	-	√	√	-
104	Tand Gharak	Saway	-	-	-	√	-	-	√	-	-	√	√	-
105	Tand Gharak	Zundi Khel	-	-	-	-	-	√	√	-	-	√	-	-
106	Usman Khel	Esa Khel	-	-	-	√	√	√	√	-	-	√	√	-
107	Usman Khel	Lewanian Khel	-	-	-	-	-	√	√	-	-	√	√	-

Appendix M1: Busy time in Sayed Karam district

S/No	Main village	Sub village	Busy time of people in a year											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
108	Yahya Khel		-	-	√	-	√	-	√	√	-	-	√	-
109	Yargul Khel		-	-	√	-	-	√	√	-	-	√	-	-

Appendix N: Illicit crop production and main reasons for growing illicit crops in Gardez district

S/No	Main village	Sub village	Opium poppy Area cultivated (Jerib)	Opium poppy Yield (Kg/J)	Addict People	Hashish Area cultivated (Jerib)	Hashish Yield (Kg/J)	Addict people	Reasons for growing illicit crop A	Reasons for growing illicit crop B
1	Ahangaran		0	0.0	0	0	0	2	-	-
2	Awdakay		0	0.0	0	500	16	0	√	√
3	Chawanay	Pahlawan Khel	0	0.0	0	0	0	1	-	-
4	Teray	Tandan	0	0.0	0	10	9	0	√	√
5	Teray	Woch Khakh	0	0.0	0	120	8	0	√	-

A = High income
B = Low water requirement

Appendix N1: Illicit crop production and main reasons for growing illicit crops in Sayed Karam district

			Opium poppy			Hashish			Reasons for growing illicit crop	
S/No	Main village	Sub village	Area cultivated (Jerib)	Yield (Kg/J)	Addict People	Area cultivated (Jerib)	Yield (Kg/J)	Addict people	A	B
1	Ashpan		0	0.0	0	5	2	0	-	-
2	Chino	Chino Sar	0	0.0	0	550	25	0	√	√
3	Gharak	Talkhan	0	0.0	0	5	20	0	√	√
4	Isa Khel		0	0.0	0	0	0	12	-	-
5	Jangi Khel		0	0.0	0	0	0	2	-	-
6	Kuz Sejenak	Tarai	0	0.0	0	0	0	2	-	-
7	Machal Ghu	Akbar Khel	0	0.0	0	10	11	0	-	-
8	Machal Ghu	Lewan	0	0.0	0	1	16	0	-	-
9	Machal Ghu	Mulla Khel	0	0.0	0	3	22	0	-	-
10	Machal Ghu	Nagram	0	0.0	0	5	19	0	√	-
11	Machal Ghu	Nandar Khel	0	0.0	0	2	20	0	√	-
12	Machal Ghu	Nora Khel	0	0.0	0	15	12	0	-	-
13	Machal Ghu	Pala Khel	0	0.0	0	10	16	0	-	-
14	Machal Ghu	Sayed Khel	0	0.0	0	3	18	0	-	-
15	Machal Ghu	Taro Khel	0	0.0	0	20	28	0	-	-
16	Machal Ghu	Wach Khakh Qala	0	0.0	0	10	17	0	√	-

A = High income
B = Low water requirement

Appendix O: Irrigation water sources, activities need for normal water flow and main reasons for water shortage in Gardaez district

S/No	Main village	Sub village	Canal/Stream: % of land irrigated	Flow status: Normal	Flow status: Abnormal	Activities needed for normal flow: A	B	C	D	Water shortage period: Form	To	Reasons for irrigation water shortage: E	F	G	H	I	J
1	Asalatbeg		50	-	√	√	-	-	-	MAY	JUL	√	-	-	√	-	-
2	Bala Deh	Rodak	80	-	√	√	-	√	-	-	-	-	-	-	-	-	-
3	Chawanay	Metran Khel	40	-	√	-	-	√	-	JUN	NOV	√	-	-	-	-	-
4	Chawanay	Pahlawan Khel	20	-	√	-	√	-	-	JUL	MAR	√	-	-	-	-	-
5	Dawlatzai	Ali Jan Khel	10	-	√	-	-	√	-	JUN	OCT	√	-	-	-	-	-
6	Dawlatzai	Dray Plari	100	-	√	√	√	-	-	MAY	NOV	√	-	-	-	-	-
7	Dawlatzai	Gadai Khel	75	-	√	√	√	-	-	JUN	NOV	√	-	-	-	-	-
8	Dawlatzai	Gajan	75	-	√	√	√	-	-	JUL	NOV	√	-	-	-	-	-
9	Dawlatzai	Ghunday Kalay	40	-	√	-	-	√	-	MAY	NOV	√	-	-	-	-	-
10	Dinar Khel		30	√	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Doghabad		70	-	√	-	-	-	√	JUN	SEP	√	-	-	-	√	-
12	Golowall	Kuz Golowall	100	-	√	√	-	√	-	-	-	-	-	-	-	-	-
13	Hemat Khel		100	-	√	√	-	√	-	JUN	SEP	√	-	-	-	-	-
14	Ibrahim Khel	Azami Khel	50	-	√	-	-	-	√	MAY	NOV	√	-	-	-	-	-
15	Ibrahim Khel	Bada Khel	50	√	-	-	-	-	-	APR	OCT	√	-	-	-	-	-
16	Ibrahim Khel	Ghani Qala	100	-	√	√	-	-	-	-	-	√	-	-	-	-	-
17	Ibrahim Khel	Karama Khel	100	-	√	√	-	-	-	-	-	√	-	-	-	-	-
18	Ibrahim Khel	Mashad Khel	80	-	√	-	-	√	-	-	-	√	-	-	-	-	-
19	Ibrahim Khel	Pakhary	75	-	√	-	√	-	-	MAY	NOV	√	-	-	-	-	-
20	Ibrahim Khel	Pirzad Khel	90	-	√	-	-	-	√	JUN	NOV	√	-	-	-	-	-
21	Ibrahim Khel	Rahmat Khel	90	-	√	-	-	-	√	MAY	OCT	√	-	-	-	-	-
22	Ibrahim Khel	Raza Khel	90	-	√	-	-	-	√	MAY	NOV	√	-	-	-	-	-
23	Ibrahim Khel	Sadiq Khel	100	-	√	√	-	-	-	MAY	JUL	√	-	-	-	-	-
24	Ibrahim Khel	Sarwar Khel	100	-	√	-	-	-	√	-	-	-	-	-	-	-	-

Table 5.4: Main reasons for irrigation water shortage

Reasons	No. of villages replied	
	Gardez	Sayed Karam
Drought	70	59
Karez damaged	6	4
Water infiltration in stream	14	1
Lack of reservoir	-	1

6. LIVESTOCK AND POULTRY

Animal husbandry is another significant economic activity and the selling of livestock and livestock products represents a major proportion of income for the households. In addition, donkeys, camels and horses are a valuable means of transportation in the areas surveyed.

Table 6.1: Livestock ownership

District	Livestock	No. of villages reported	Total number
Gardez	Cattle	107	7931
	Sheep & goat	107	19386
	Donkey	96	1928
	Horse	1	2
Sayed Karam	Cattle	109	11133
	Sheep & goat	103	23882
	Camel	3	12
	Donkey	101	3719
	Horse	2	3

Almost all of the villages reported having cattle, sheep and goats. A total of 19,064 cattle, 43,268 sheep and goats, 5,647 donkeys, 3 camels and 5 horses were recorded in all areas under survey (see Table 6.1 and Appendix P-P1).

Table 6.2: Poultry

District	No. of villages surveyed	No. of villages reported	Average No. of chicken per family	% of Imp. breed of chicken
Gardez	109	104	10	5
Sayed Karam	109	107	11	7

Poultry farming was reported in 211 villages. There was an average of 10 chickens per family in Gardez district of which five percent was of improved breed. In Sayed Karam district each family kept an average of 11 chickens of which seven percent was of improved breed. According to the enumerators, IRC has distributed improved chickens among people but villagers did not confirm it (see Table 6.2 and Appendix P-P1).

Appendix O: Irrigation water sources, activities need for normal water flow and main reasons for water shortage in Gardaez district (Cont..)

			Canal/Stream			Activities needed for normal flow				Water shortage period		Reasons for irrigation water shortage					
				Flow status													
S/No	Main village	Sub village	% of land irrigated	Normal	Abnormal	A	B	C	D	Form	To	E	F	G	H	I	J
25	Ibrahim Khel	Tabiban	100	-	√	-	√	-	-	MAY	NOV	√	-	-	-	-	-
26	Ibrahim Khel	Tan Khan Khel	95	-	√	√	-	-	-	JUN	NOV	√	-	-	-	-	-
27	Ibrahim Khel	Walyan	100	-	√	-	-	√	-	MAY	NOV	√	-	-	-	-	-
28	Karmashi		20	-	√	-	-	√	-	JUL	OCT	√	-	-	-	√	-
29	Mahmud Qala		100	-	√	√	-	√	-	JUL	SEP	√	-	-	-	-	-
30	Nisti Kot	Kuz Nistikot	100	-	√	√	-	√	-	JUN	SEP	√	-	-	-	-	-
31	Nistikot	Bar Nistikot	60	-	√	√	-	√	-	-	-	√	-	-	-	-	-
32	Qala-e-Dahbashi		60	√	-	-	-	-	-	-	-	√	-	-	-	-	-
33	Qala-e-Sarsang		30	-	√	-	-	√	-	JUN	OCT	√	-	-	-	√	-
34	Sadat Khel		100	-	√	-	-	√	-	-	-	-	-	-	-	-	-
35	Sarkary Qala		100	-	√	-	-	√	-	JUN	NOV	√	-	-	-	√	-
36	Shekhan		85	-	√	-	√	√	-	JUL	SEP	√	-	-	-	√	-
37	Talbi Khel		100	-	√	-	-	√	-	JUL	SEP	√	-	-	-	-	-
38	Teray	Azad Khan Khel	100	-	√	-	-	√	-	-	-	-	-	-	-	-	-
39	Teray	Bagho Kalay	100	-	√	√	√	-	-	-	-	-	-	-	-	-	-
40	Teray	Kuz Lewan	50	-	√	√	√	-	-	-	-	-	-	-	-	-	-
41	Teray	Lewanian	100	-	√	-	√	√	-	-	-	-	-	-	-	-	-
42	Teray	Lewan	90	-	√	√	-	√	-	-	-	-	-	-	-	-	-
43	Teray	Momin Khel	90	-	√	√	-	√	-	-	-	-	-	-	-	-	-
44	Teray	Nawrakay	100	-	√	√	√	-	-	-	-	-	-	-	-	-	-
45	Teray	Samad Khel	50	-	√	√	-	√	-	-	-	-	-	-	-	-	-
46	Teray	Spina Qala	100	-	√	-	√	√	-	-	-	-	-	-	-	-	-
47	Teray	Sra Qala	70	-	√	√	√	-	-	-	-	-	-	-	-	-	-

Appendix O: Irrigation water sources, activities need for normal water flow and main reasons for water shortage in Gardaez district (Cont..)

S/No	Main village	Sub village	Canal/Stream			Activities needed for normal flow				Water shortage period		Reasons for irrigation water shortage					
			% of land irrigated	Flow status													
				Normal	Abnormal	A	B	C	D	Form	To	E	F	G	H	I	J
48	Teray	Tandan	100	-	√	√	√	√	-	-	-	-	-	-	-	-	-
49	Woch Gharak		50	-	√	√	-	√	-	JUL	OCT	√	-	-	-	-	-

A= Canal cleaning
B= Construction of diversion dam
C= Repairing of related structures
D= Construction of syphone
E= Drought
F= Dam damaged by flood
G= Stream filled by flood
H= Karez damaged
I= Water infiltration in stream
J= Lack of reservoir

Appendix O: Irrigation water sources, activities need for normal, water flow and main reasons for water shortage in Gardez district

S/No	Main village	Sub village	Karez: % of land irrigated	Karez: Flow status: Normal	Karez: Flow status: Abnormal	Activities needed for normal flow: A	B	C	D	E	Water shortage period: From	To	Reasons for Irrigation water shortage: F	G	H	I	J	K
1	Asalatbeg		50	-	√	√	-	-	√	-	MAY	JUL	-	-	-	√	-	-
2	Awdakay		100	-	√	√	-	-	√	√	-	-	-	-	-	-	-	-
3	Banozai	Banozai	100	-	√	√	-	-	√	-	JUN	OCT	-	-	-	√	-	-
4	Banozai	Darabal Kalay	70	-	√	√	-	-	√	√	JUN	NOV	√	-	-	-	-	-
5	Banozai	Salar Kalay	100	-	√	√	-	-	√	√	JUN	OCT	√	-	-	√	-	-
6	Chawanay	Metran Khel	60	-	√	√	-	-	√	-	JUN	NOV	√	-	-	-	-	-
7	Chawanay	Pahlawan Khel	80	-	√	√	-	-	√	√	JUL	MAR	√	-	-	-	-	-
8	Chawanay	Rabati	70	-	√	√	-	-	√	-	JUN	SEP	√	-	-	-	-	-
9	Dara		50	-	√	√	-	-	√	√	JUN	OCT	√	-	-	-	-	-
10	Dawlatzai	Habib Khel	100	-	√	√	-	-	√	√	-	-	√	-	-	√	-	-
11	Dawlatzai	Laghar	100	-	√	√	-	-	√	-	-	-	-	-	-	-	-	-
12	Dawlatzai	Ali Jan Khel	90	-	√	√	-	-	√	√	JUN	OCT	√	-	-	-	-	-
13	Dawlatzai	Fathullah	100	-	√	√	-	-	√	√	AUG	NOV	√	-	-	√	-	-
14	Dawlatzai	Gadai Khel	25	-	√	√	-	-	√	√	JUN	NOV	√	-	-	-	-	-
15	Dawlatzai	Gajan	25	-	√	√	-	-	√	√	JUL	NOV	√	-	-	-	-	-
16	Dawlatzai	Ghunday Kalay	60	-	√	√	-	-	√	√	MAY	NOV	√	-	-	-	-	-
17	Dinar Khel		40	-	√	-	-	-	√	-	-	-	-	-	-	-	-	-
18	Doghabad		30	-	√	√	-	-	√	-	JUN	SEP	√	-	-	-	√	-
19	Golo Khel		100	-	√	√	-	-	√	-	-	-	-	-	-	-	-	-
20	Ibrahim Khel	Bada Khel	30	-	√	√	-	-	√	-	APR	OCT	√	-	-	-	-	-
21	Karmashi		80	-	√	√	-	-	√	-	JUL	OCT	√	-	-	-	√	-
22	Khan Qala		30	-	√	√	-	-	-	-	JUL	OCT	√	-	-	-	√	-
23	Khataba	Sadiq Khel	100	-	√	√	-	-	√	-	JUN	OCT	√	-	-	-	-	-
24	Khataba	Shakar Khel	100	-	√	√	-	-	√	-	JUN	OCT	√	-	-	-	-	-
26	Khataba	Shekhano Qala	100	-	√	√	-	-	√	-	-	-	-	-	-	-	-	-

Appendix O: Irrigation water sources, activities need for normal water flow and main reasons for water shortage in Gardez district (Cont..)

S/No	Main village	Sub village	Karez: % of land irrigated	Karez: Flow status: Normal	Karez: Flow status: Abnormal	Activities needed for normal flow: A	B	C	D	E	Water shortage period: From	To	Reasons for Irrigation water shortage: F	G	H	I	J	K
27	Khwaja Hassan	Khwaja Hassan Ulya	100	-	√	√	√	-	√	-	JUN	OCT	√	-	-	-	√	-
28	Khwaja Hassan	Khwaja Hassan Sufla	100	-	√	√	-	-	-	√	MAY	SEP	√	-	-	-	√	-
29	Kochi Khel		100	-	√	√	-	-	√	√	JUN	OCT	√	-	-	-	-	-
30	Kwash	Azgana	70	-	√	√	-	-	√	√	JUN	NOV	√	-	-	-	-	-
31	Kwash	Bar Kwash	100	-	√	√	-	-	√	-	JUL	NOV	√	-	-	√	-	-
32	Kwash	Koz Kwash	100	-	√	√	-	-	√	√	JUN	NOV	√	-	-	-	-	-
33	Kwash	Pakhari	100	-	√	√	-	-	√	√	JUN	NOV	√	-	-	-	-	-
34	Melan	Hajiano Kalay	100	-	√	√	-	-	√	-	-	-	-	-	-	-	-	-
35	Melan	Melan	50	-	√	√	-	-	√	-	JUL	OCT	√	-	-	-	√	-
36	Mia Noor Qala		10	-	√	√	-	-	√	-	JUN	OCT	√	-	-	-	-	-
37	Mumray		100	√	-	-	-	-	-	-	JUN	NOV	√	-	-	-	-	-
38	Niazi Qala		70	-	√	√	-	-	-	√	-	-	-	-	-	-	-	-
39	Nistikot	Bar Nistikot	40	-	√	√	-	-	√	√	-	-	-	-	-	-	-	-
40	Pushta		100	-	√	√	-	-	-	√	JUN	OCT	√	-	-	-	-	-
41	Qala-e-Arjal		100	-	√	√	-	-	√	-	JUN	OCT	-	-	-	-	-	-
42	Qala-e-Dahbashi		20	-	√	√	-	-	√	√	-	-	-	-	-	-	-	-
43	Qala-e-Halim		100	-	√	√	-	-	√	-	-	-	-	-	-	-	-	-
44	Qala-e-Sarsang		70	-	√	√	-	-	√	-	JUN	OCT	√	-	-	-	√	-
45	Rabat	Rabat	70	-	√	√	-	-	√	-	JUN	-	√	-	-	-	√	-
46	Saparai		100	-	√	√	-	-	√	√	JUL	OCT	√	-	-	-	-	-
47	Sepahi Khel		50	-	√	√	-	-	-	√	JUN	SEP	√	-	-	-	√	-
48	Shekhan		50	-	√	√	-	-	√	√	JUN	OCT	√	-	-	-	-	-
49	Shekhan		50	-	√	√	-	-	√	-	-	-	-	-	-	-	-	-
50	Teray	Charmakhkay	100	-	√	√	-	-	√	√	JUN	OCT	√	-	-	-	-	-
51	Teray	Fazal Qala	70	-	√	√	-	-	√	-	-	-	-	-	-	-	-	-

Appendix O: Irrigation water sources, activities need for normal water flow and main reasons for water shortage in Gardez district (Cont..)

			Karez			Activities needed for normal flow					Water shortage period		Reasons for Irrigation water shortage					
				Flow status														
S/No	Main village	Sub village	% of land irrigated	Normal	Abnormal	A	B	C	D	E	From	To	F	G	H	I	J	K
52	Teray	Kuz Lewan	50	-	√	√	-	-	√	√	-	-	-	-	-	-	-	-
53	Teray	Lewan	10	-	√	√	-	-	√	√	-	-	-	-	-	-	-	-
54	Teray	Momin Khel	10	-	√	√	-	-	√	-	-	-	-	-	-	-	-	-
55	Teray	Samad Khel	50	-	√	√	-	-	√	-	-	-	-	-	-	-	-	-
56	Teray	Sra Qala	30	-	√	√	-	-	√	√	-	-	-	-	-	-	-	-
57	Teray	Tarkanan	100	-	√	√	-	√	√	-	-	-	-	-	-	-	-	-
58	Utmanay		100	-	√	√	-	-	√	-	JUN	SEP	√	-	-	-	-	-
59	Woch Gharak		25	-	√	√	-	-	√	-	JUL	OCT	√	-	-	-	-	-
60	Zawa		60	-	√	-	-	-	√	-	MAY	SEP	√	-	-	-	-	-

A= Cleaning of Karez
B= Protection wall
C= Cleaning of Karez
D= Cleaning of Karez channel
E= Extension of Karez channel
F= Drought
G= Dam damaged by flood
H= Stream filled by flood
I= Karez damaged
J= Water infiltration in stream
K= Lack of reservoir

Appendix O: Irrigation water sources, activities need for normal water flow and main reasons for water shortage in Gardez district

			Spring			Activities needed for normal flow					Water shortage period		Reasons for Irrigation water shortage					
				Flow status														
S/No	Main village	Sub village	% of land irrigated	Normal	Abnormal	A	B	C	D	E	From	To	F	G	H	I	J	K
1	Ahangaran		100	-	√	-	-	-	-	√	-	-	-	-	-	-	-	-
2	Bala Deh	Afzal Khel	100	-	√	-	-	-	√	-	JUN	NOV	√	-	-	-	-	-
3	Bala Deh	Bala Deh	100	-	√	-	-	-	√	-	JUN	OCT	√	-	-	-	-	-
4	Bala Deh	Raies Khel	100	-	√	-	-	-	√	-	JUN	OCT	√	-	-	-	-	-
5	Banozai	Darabal Kalay	30	-	√	-	-	-	√	-	JUN	NOV	√	-	-	-	-	-
6	Chakan Shekhan		100	-	√	-	-	-	√	-	JUL	OCT	√	-	-	-	-	-
7	Chawanay	Rabati	30	-	√	-	-	-	√	-	JUN	SEP	√	-	-	-	-	-
8	Dara		50	-	√	-	-	√	-	-	JUN	OCT	√	-	-	-	-	-
9	Dinar Khel		30	√	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Golowall	Bar Golowall	100	-	√	-	-	√	√	-	-	-	-	-	-	-	-	-
11	Khan Qala		70	-	√	-	-	√	-	-	JUL	OCT	√	-	-	-	√	-
12	Kwash	Azgana	30	-	√	-	-	-	√	-	JUN	NOV	-	-	-	-	-	-
13	Malik Khel		100	-	√	-	-	√	-	-	JUL	SEP	√	-	-	-	√	-
14	Melan	Doaba	100	-	√	-	√	-	-	-	JUN	OCT	-	-	-	-	-	-
15	Melan	Habib Qala	100	-	√	-	-	√	√	-	MAY	SEP	√	-	-	-	√	-
16	Melan	Melan	50	-	√	-	-	√	-	-	JUL	OCT	√	-	-	-	√	-
17	Melan	Shekhan	100	-	√	-	-	-	√	-	JUN	SEP	√	-	-	-	-	-
18	Mia Noor Qala		90	-	√	√	-	-	-	-	JUN	OCT	√	-	-	-	-	-
19	Mohd Raza Khel		100	-	√	-	-	-	√	-	-	-	-	-	-	-	-	-
20	Niazi Qala		30	-	√	√	-	√	-	-	-	-	-	-	-	-	-	-
21	Qala-e-Dahbashi		10	√	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	Qala-e-Sayedan		100	-	√	-	-	√	-	-	JUL	NOV	√	-	-	-	-	-
23	Qala-e-Zargar		100	-	√	-	-	√	-	-	-	-	-	-	-	-	-	-
24	Rabat	Rabat	30	-	√	-	-	√	√	-	JUN	OCT	√	-	-	-	√	-
25	Rabat	Shah-e-Qadam	100	-	√	-	-	√	-	-	JUN	SEP	√	-	-	-	-	-

Appendix O: Irrigation water sources, activities need for normal water flow and main reasons for water shortage in Gardez district (Cont..)

S/No	Main village	Sub village	% of land irrigated	Spring – Flow status		Activities needed for normal flow					Water shortage period		Reasons for Irrigation water shortage					
				Normal	Abnormal	A	B	C	D	E	From	To	F	G	H	I	J	K
26	Saidan	Mashayan	100	-	√	-	-	√	-	-	JUN	NOV	√	-	-	-	-	-
27	Sepahi Khel		50	-	√	-	-	√	-	-	JUN	SEP	√	-	-	-	√	-
28	Shekhan		50	-	√	-	-	-	√	-	JUN	OCT	√	-	-	-	-	-
29	Shekhan		50	-	√	-	-	-	-	√	-	-	-	-	-	-	-	-
30	Teray	Fazal Qala	30	-	√	-	-	-	√	-	-	--	-	-	-	-	-	-
31	Teray	Ghafur Khel	100	-	√	-	-	-	√	-	-	-	-	-	-	-	-	-
32	Teray	Woch Khakh	100	-	√	-	-	-	√	-	-	-	-	-	-	-	-	-
33	Woch Gharak		25	-	√	-	-	-	√	-	JUL	OCT	√	-	-	-	-	-
34	Zawa		40	-	√	-	-	-	-	√	MAY	SEP	√	-	-	-	-	-

A= Protection wall
B= Construction of syohone
C= Repairing of related structures
D= Cleaning of spring
E= Construction of reservoir
F= Drought
G= Dam damaged by flood
H= Stream filled by flood
I= Karez damaged
J= water infiltration in steram

Appendix O: Irrigation water sources, activities need for normal water flow and main reasons for water shortage in Gardez district

S/No	Main village	Sub village	Well			Activities needed for normal flow					Water shortage period		Reasons for Irrigation water shortage					
			% of land irrigated	Flow status														
				Normal	Abnormal	A	B	C	D	E	From	To	F	G	H	I	J	K
1	Bala Deh	Rodak	20	-	√	-	-	√	-	-	-	-	-	-	-	-	-	-
2	Ibrahim Khel	Azami Khel	50	√	-	-	-	-	-	-	MAY	NOV	√	-	-	-	-	-
3	Ibrahim Khel	Bada Khel	20	√	-	-	-	-	-	-	APR	OCT	√	-	-	-	-	-
4	Ibrahim Khel	Mashad Khel	20	√	-	-	-	-	-	-	-	-	√	-	-	-	-	-
5	Ibrahim Khel	Pakhary	25	√	-	-	-	-	-	-	MAY	NOV	√	-	-	-	-	-
6	Ibrahim Khel	Pirzad Khel	10	√	-	-	-	-	-	-	JUN	NOV	√	-	-	-	-	-
7	Ibrahim Khel	Rahmat Khel	10	√	-	-	-	-	-	-	MAY	OCT	√	-	-	-	-	-
8	Ibrahim Khel	Raza Khel	10	√	-	-	-	-	-	-	MAY	NOV	√	-	-	-	-	-
9	Ibrahim Khel	Tan Khan Khel	5	√	-	-	-	-	-	-	JUN	NOV	√	-	-	-	-	-
10	Qala-e-Dahbashi		10	√	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Shekhan		15	√	-	-	-	-	-	-	JUL	SEP	√	-	-	-	√	-

A= Protection wall
B= Construction of syohone
C= Repairing of related structures
D= Cleaning of spring
E= Construction of reservoir
F= Drought
G= Dam damaged by flood
H= Stream filled by flood
I= Karez damaged
J= water infiltration in steram

Appendix 01: Irrigation water sources, activities need for normal water flow and main reasons for water shortage in Sayed Karam district

			Canal/Stream			Activities needed for normal flow				Water shortage period		Reasons for irrigation water shortage					
				Flow status													
S/No	Main village	Sub village	% of land irrigated	Normal	Abnormal	A	B	C	D	Form	To	E	F	G	H	I	J
1	Ahmad Shah Khel		100	-	√	√	√	-	-	-	-	-	-	-	-	-	-
2	Dam	Miral Khel	30	-	√	-	-	√	-	-	-	-	-	-	-	-	-
3	Gharak	Talkhan	50	-	√	-	√	-	-	-	-	-	-	-	-	-	-
4	Kerkin	Gorandi Shekhan	100	√	-	-	-	-	-	JUL	OCT	√	-	-	-	-	-
5	Kerkin	Selarai	100	-	√	-	-	√	-	JUN	OCT	√	-	-	-	-	-
6	Kerkin	Sru Kholeh	100	-	√	√	-	-	-	JUL	OCT	√	-	-	-	-	-
7	Kerkin	Sur Petaw	100	-	√	-	√	-	-	JUL	NOV	√	-	-	-	-	-
8	Kerkin	Wocha Lagada	40	-	√	-	-	-	√	MAR	JUN	√	-	-	-	-	-
9	Kerkin Kholeh		80	-	√	-	-	√	-	JUN	OCT	√	-	-	-	-	-
10	Khawajar Khel		30	-	√	-	√	-	-	JUN	SEP	√	-	-	-	-	-
11	Kosin	Kalgar	60	-	√	-	-	-	√	MAR	JUN	√	-	-	-	-	-
12	Kosin	Khoshal Khel	70	-	√	-	-	√	-	JUN	OCT	√	-	-	-	-	-
13	Kosin	Shekhan	40	-	√	-	-	-	√	MAR	JUL	√	-	-	-	-	-
14	Machal Ghu	Akbar Khel	100	-	√	√	√	√	-	JUL	OCT	√	-	-	-	-	√
15	Machal Ghu	Bazu Khel	100	-	√	-	-	-	√	-	-	√	-	-	-	-	-
16	Machal Ghu	Gandir Khel	100	-	√	√	-	-	-	-	-	-	-	-	-	-	-
17	Machal Ghu	Godian	100	-	√	√	√	√	-	AUG	OCT	√	-	-	-	-	-
18	Machal Ghu	Hassan Qala	50	-	√	-	-	√	-	-	-	√	-	-	-	-	-
19	Machal Ghu	Mado Khel	100	-	√	√	√	√	-	JUN	OCT	√	-	-	-	-	-
20	Machal Ghu	Nandar Khel	100	-	√	-	-	-	√	-	-	-	-	-	-	-	-
21	Machal Ghu	Nora Khel	100	-	√	√	√	√	-	AUG	OCT	√	-	-	-	-	-
22	Machal Ghu	Pala Khel	100	-	√	√	√	-	-	-	-	√	-	-	-	-	-
23	Machal Ghu	Salim Khan Khel	100	-	√	-	√	-	-	-	-	√	-	-	-	-	-
24	Machal Ghu	Sayed Khel	60	-	√	-	√	√	√	-	-	-	-	-	-	-	-
25	Machal Ghu	Spina Qala	100	-	√	-	√	-	-	-	-	-	-	-	-	-	-

Appendix 01: Irrigation water sources, activities need for normal water flow and main reasons for water shortage in Sayed Karam district (Cont..)

S/No	Main village	Sub village	% of land irrigated	Canal/Stream Flow status: Normal	Canal/Stream Flow status: Abnormal	Activities needed for normal flow: A	B	C	D	Water shortage period: Form	To	Reasons for irrigation water shortage: E	F	G	H	I	J
26	Machal Ghu	Taro Khel	100	-	√	-	-	-	√	-	-	-	-	-	-	-	-
27	Machal Ghu	Toor Khel	100	-	√	-	√	√	-	-	-	-	-	-	-	-	-
28	Machal Ghu	Wach Khakh Qala	100	-	√	√	√	√	-	-	-	-	-	-	-	-	-
29	Merzaka	Azad Khel	40	-	√	√	-	-	-	JUN	NOV	√	-	-	-	-	-
30	Merzaka	Chanjay Khwar	40	-	√	√	-	√	-	JUN	NOV	√	-	-	-	-	-
31	Sayed Khel		40	√	-	-	-	-	-	JUL	OCT	√	-	-	-	√	-
32	Tand Gharak	Ataei Qala	100	-	√	-	-	-	√	JUN	JUL	√	-	-	-	-	-
33	Tand Gharak	Fazal Khel	100	-	√	√	√	√	-	-	-	-	-	-	-	-	-
34	Tand Gharak	Zundi Khel	100	-	√	√	√	√	-	-	-	-	-	-	-	-	-

A= Canal cleaning
B= Construction of diversion dam
C= Repairing of related structures
D= Protection wall
E= Drought
F= Dam damaged by flood
G= Stream filled by flood
H= Karez damaged
I= Water infiltration in stream
J= Lack of reservoir

7. EDUCATION

According to the data, 24 home schools are functioning in the area where 1,197 boys and 356 girls are studying under instruction from 32 male teachers. 15 of these home schools are funded by CARE and seven of them are funded by the IRC. 19 primary schools were found where 3,233 boys and 264 girls are receiving education from 67 male teachers. Of these 19 schools, eight have buildings three of which are damaged. Five of them belong to the government and three others belong to the community. Eight of these primary schools are funded by government, thirteen by community and three by CARE and SCA.

Table 7.1: Education facilities

District	Level of school	Number. of schools	Students boys	Students girls	Teachers	Funding sources Govt.	Community	NGOs CARE	LDI	SCA	IRC
Gardez	Home	9	332	149	12	2	4	6	0	0	2
	Primary	12	2343	244	52	6	7	1	0	1	0
	Middle	2	320	0	11	1	1	0	0	0	0
	High school	1	2000	0	35	0	0	0	1	0	0
Sayed Karam	Home	15	865	207	20	1	14	9	0	0	5
	Primary	7	890	20	15	2	6	1	0	0	2
	Middle	1	400	0	5	0	1	0	0	0	0
	High school	2	440	0	17	1	0	0	0	1	0

Three middle schools were found in Gardez and Sayed Karam where 720 male students were taught by 16 male teachers. The buildings belong to the government and community and only one of them is damaged. The middle schools are funded by the government and community. Three high schools were found in the surveyed area where 2,440 male students are taught by 52 male teachers. One of the schools are funded by the government and two others are funded by SCA and LDI. All of the school buildings belong to the government (see Table 7.1-7.2 and Appendix Q-Q1 and R-R1).

Table 7.2: School building

District	Level of school	Building availability	Status of building damaged	undamaged	Building belongs to Government	Community	No. of rooms in building
Gardez	Home	0	0	0	0	0	0
	Primary	5	1	4	3	2	38
	Middle	2	1	1	2	0	14
	High school	1	0	1	1	0	18
Sayed Karam	Home	0	0	0	0	0	0
	Primary	3	2	1	2	1	22
	Middle	1	0	1	0	1	6
	High school	2	0	2	2	0	24

Appendix 01: Irrigation water sources, activities need for normal water flow and main reasons for water shortage in Sayed Karam district

			Karez			Activities needed for normal flow					Water shortage period		Reasons for Irrigation water shortage					
				Flow status														
S/No	Main village	Sub village	% of land irrigated	Normal	Abnormal	A	B	C	D	E	From	To	F	G	H	I	J	K
1	Andwam		60	-	√	√	-	-	√	-	JUN	OCT	√	-	-	-	-	-
2	Ashpan		100	-	√	√	-	-	√	√	MAR	JUL	√	-	-	-	-	-
3	Bar Sejenak		10	-	√	√	-	-	√	√	MAR	JUN	√	-	-	-	-	-
4	Bar Sejenak	Alamgay	10	-	√	√	-	-	√	-	JUN	NOV	√	-	-	-	-	-
5	Cheno	Durrani	70	-	√	√	-	-	√	-	-	-	-	-	-	-	-	-
6	Cher Rakay		100	-	√	√	-	-	√	√	MAY	NOV	√	-	-	-	-	-
7	Chino	Chino	60	-	√	√	-	-	-	-	-	-	-	-	-	-	-	-
8	Dam	Ayubi	50	-	√	√	-	-	√	-	JUL	OCT	√	-	-	-	-	-
9	Dam	Khogory	100	-	√	-	-	-	√	√	JUL	SEP	√	-	-	-	-	-
10	Dam	Miral Khel	30	-	√	√	-	-	√	√	-	-	-	-	-	-	-	-
11	Ghonday		80	-	√	√	-	-	√	√	-	-	-	-	-	-	-	-
12	Ghwareza		100	-	√	√	-	-	√	-	-	-	-	-	-	-	-	-
13	Gud Mangal Qala		100	-	√	-	-	-	√	-	-	-	-	-	-	-	-	-
14	Kalgar	MOhd Amin Khel	100	-	√	√	-	-	√	√	JUN	SEP	√	-	-	-	-	-
15	Karezgay		100	-	√	√	-	-	√	-	JUN	OCT	√	-	-	-	-	-
16	Kerkin	Jan Ghunday	100	-	√	√	-	-	√	√	JUN	NOV	√	-	-	-	-	-
17	Kerkin	Wocha Lagada	60	-	√	√	-	-	√	√	MAR	JUN	√	-	-	-	-	-
18	Kerkin Kholeh		20	-	√	-	-	-	√	√	JUN	OCT	√	-	-	-	-	-
19	Khand Khel	Khand Khel	90	-	√	√	-	-	√	√	MAR	JUN	√	-	-	-	-	-
20	Khand Khel	Lalak Kalay	100	-	√	√	-	-	√	√	MAR	JUL	√	-	-	-	-	-
21	Kosin	Gorgori Qala	80	-	√	√	-	-	√	-	JUL	OCT	√	-	-	-	-	-
22	Kosin	Kalgar	40	-	√	√	-	-	√	√	MAR	JUN	√	-	-	-	-	-
23	Kosin	Khoshal Khel	30	-	√	√	-	-	√	√	JUN	OCT	√	-	-	-	-	-
24	Kosin	Kuz Khano Khel	100	-	√	√	-	-	√	√	JUL	OCT	√	-	-	-	-	-
25	Kosin	Shayasta Kalay	95	-	√	√	-	-	√	√	OCT	MAR	√	-	-	-	-	-

Appendix 01: Irrigation water sources, activities need for normal water flow and main reasons for water shortage in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Karez: % of land irrigated	Flow status: Normal	Flow status: Abnormal	Activities needed for normal flow: A	B	C	D	E	Water shortage period: From	To	Reasons for Irrigation water shortage: F	G	H	I	J	K
26	Kosin	Shekhan	60	-	√	√	-	-	√	√	MAR	JUL	√	-	-	-	-	-
27	Kotkay		100	-	√	√	-	-	-	-	-	-	-	-	-	-	-	-
28	Kuz Sejenak	Kuz Sejenak	40	-	√	-	√	-	√	-	MAR	JUN	√	-	-	-	-	-
29	Kuz Sejenak	Tarai	100	-	√	√	-	-	√	√	MAR	JUL	√	-	-	-	-	-
30	Machal Ghu	Hassan Qala	50	-	√	√	-	-	-	√	-	-	-	-	-	-	-	-
31	Machal Ghu	Nagram	100	-	√	√	-	-	√	√	-	-	-	-	-	-	-	-
32	Merzaka	Azad Khel	60	-	√	√	-	-	√	√	JUN	NOV	√	-	-	-	-	-
33	Merzaka	Batay	60	-	√	√	-	-	√	-	JUN	OCT	√	-	-	-	-	-
34	Merzaka	Chanjay Khwar	40	-	√	√	-	-	√	√	JUN	NOV	√	-	-	-	-	-
35	Merzaka	Chungay	85	-	√	√	-	-	√	√	MAR	JUN	√	-	-	-	-	-
36	Merzaka	Garamay	100	-	√	√	-	-	√	√	JUN	NOV	√	-	-	-	-	-
37	Merzaka	Ghonzay	100	-	√	√	-	-	√	√	MAR	JUN	√	-	-	-	-	-
38	Merzaka	Hajiyan	40	-	√	√	-	-	√	-	JUN	OCT	√	-	-	√	-	-
39	Merzaka	Kajeray	40	-	√	√	-	-	√	-	JUN	OCT	√	-	-	√	-	-
40	Merzaka	Khalilan	50	-	√	√	-	-	√	√	JUN	NOV	√	-	-	-	-	-
41	Naray Kalay		70	-	√	√	-	-	-	-	-	-	-	-	-	-	-	-
42	Nigram	Ainuddin Qala	100	-	√	√	-	-	√	√	MAR	JUL	√	-	-	-	-	-
43	Osman Khel	Mach	100	-	√	√	-	-	√	√	JUN	OCT	√	-	-	-	-	-
44	Osman Khel	Raza Khel	100	-	√	√	-	-	√	√	-	-	-	-	-	-	-	-
45	Qader Khel		30	-	√	√	-	-	√	-	-	-	-	-	-	-	-	-
46	Salemi Nargay		100	-	√	√	-	-	√	√	AUG	NOV	√	-	-	√	-	-
47	Sarwar Qala		100	-	√	√	-	-	-	√	-	-	√	-	-	-	-	-
48	Sham Ghunday		80	-	√	√	-	-	√	√	JUN	NOV	√	-	-	√	-	-
49	Spina Qala		30	-	√	√	-	-	√	-	JUN	OCT	√	-	-	-	-	-
50	Usman Khel	Esa Khel	70	-	√	√	-	-	√	-	-	-	-	-	-	-	-	-

Appendix 01: Irrigation water sources, activities need for normal water flow and main reasons for water shortage in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Karez			Activities needed for normal flow					Water shortage period		Reasons for Irrigation water shortage					
			% of land irrigated	Flow status														
				Normal	Abnormal	A	B	C	D	E	From	To	F	G	H	I	J	K
51	Usman Khel	Lewanian Khel	100	-	√	√	-	-	√	-	-	-	-	-	-	-	-	-
52	Yahya Khel		100	-	√	√	-	-	√	√	-	-	-	-	-	-	-	-

A= Cleaning of Karez
D= Cleaning of Karez channel
G= Dam damaged by flood
J= Water infiltration in stream
B= Protection wall
E= Extension of Karez channel
H= Stream filled by flood
K= Lack of reservoir
C= Cleaning of Karez
F= Drought
I= Karez damaged

Appendix 01: Irrigation water sources, activities need for normal water flow and main reasons for water shortage in Sayed Karam district

S/No	Main village	Sub village	% of land irrigated	Spring Flow status: Normal	Spring Flow status: Abnormal	Activities needed for normal flow: A	B	C	D	E	Water shortage period: From	To	Reasons for Irrigation water shortage: F	G	H	I	J	K
1	Andwam		40	-	√	-	-	-	√	-	JUN	OCT	√	-	-	-	-	-
2	Arab Khel		100	-	√	-	-	-	√	-	-	-	-	-	-	-	-	-
3	Bar Sejenak		90	-	√	-	-	-	√	-	MAR	JUN	√	-	-	-	-	-
4	Bar Sejenak	Alamgay	90	-	√	-	-	√	-	√	JUN	NOV	√	-	-	-	-	-
5	Batyan Khel		100	-	√	-	-	√	-	√	-	-	-	-	-	-	-	-
6	Chino	Chino	40	-	√	-	-	-	√	-	-	-	-	-	-	-	-	-
7	Chino	Durrani	30	-	√	√	-	√	-	-	-	-	-	-	-	-	-	-
8	Chino	Chino Sar	100	-	√	-	-	√	-	-	JUL	OCT	√	-	-	-	-	-
9	Dam	Ayubi	50	-	√	√	-	√	-	-	JUL	OCT	√	-	-	-	-	-
10	Dam	Mir Ail Khel	40	-	√	-	-	-	√	-	-	-	-	-	-	-	-	-
11	Dawlat Khel		100	-	√	-	-	-	-	√	-	-	-	-	-	-	-	-
12	Gharak	Talkhan	50	-	√	√	-	-	-	-	-	-	-	-	-	-	-	-
13	Ghonday		20	-	√	-	-	-	√	-	-	-	-	-	-	-	-	-
14	Isa Khel		100	-	√	-	-	-	√	-	JUL	SEP	√	-	-	-	-	-
15	Jangi Khel		100	-	√	-	-	-	√	-	-	-	-	-	-	-	-	-
16	Kamran Khel		100	-	√	-	-	√	-	-	JUN	AUG	√	-	-	-	-	-
17	Khanak Khel		100	-	√	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Khand Khel	Khand Khel	10	-	√	√	-	-	-	-	MAR	JUN	√	-	-	-	-	-
19	Khawajar Khel		70	-	√	-	-	√	-	-	JUN	SEP	√	-	-	-	-	-
20	Kosin	Bar Khano Khel	100	-	√	-	-	-	-	√	JUN	OCT	√	-	-	-	-	-
21	Kosin	Gorgori Qala	20	-	√	-	-	√	-	-	JUL	OCT	√	-	-	-	-	-
22	Koz Feroz Khel		100	-	√	-	-	√	-	-	-	-	-	-	-	-	-	-
23	Kunder Khel		100	√	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Kuz Sejenak	Kuz Sejenak	60	-	√	-	-	√	-	-	MAR	JUN	√	-	-	-	-	-
25	Machal Ghu	Babakrey	100	-	√	-	-	-	√	-	-	-	-	-	-	-	-	-

Appendix 01: Irrigation water sources, activities need for normal water flow and main reasons for water shortage in Sayed Karam district (Cont..)

S/No	Main village	Sub village	% of land irrigated	Spring – Flow status: Normal	Spring – Flow status: Abnormal	Activities needed for normal flow: A	B	C	D	E	Water shortage period: From	To	Reasons for Irrigation water shortage: F	G	H	I	J	K
26	Machal Ghu	Lewan	100	-	√	-	-	-	√	-	-	-	-	-	-	-	-	-
27	Machal Ghu	Mamozai	100	-	√	-	-	-	√	-	-	-	-	-	-	-	-	-
28	Machal Ghu	Mulla Khel	100	-	√	-	-	-	√	-	-	-	-	-	-	-	-	-
29	Machal Ghu	Sayed Khel	40	-	√	-	-	-	√	-	-	-	-	-	-	-	-	-
30	Mawroz Khel		100	-	√	-	-	√	-	-	JUN	AUG	√	-	-	-	-	-
31	Merzaka	Batay	40	-	√	-	-	-	√	-	JUN	OCT	√	-	-	-	-	-
32	Merzaka	Chungay	15	-	√	-	-	√	-	-	MAR	JUN	√	-	-	-	-	-
34	Merzaka	Hajiyan	60	-	√	-	-	-	√	-	JUN	OCT	√	-	-	√	-	-
35	Merzaka	Kajeray	60	-	√	-	-	-	√	-	JUN	OCT	√	-	-	√	-	-
36	Merzaka	Khalilan	50	-	√	-	-	-	√	-	JUN	NOV	√	-	-	-	-	-
37	Merzaka	Nora China	100	-	√	-	-	-	√	-	-	-	-	-	-	-	-	-
38	Merzakay	Serkay Tanga	100	-	√	-	-	-	√	-	MAR	JUN	√	-	-	-	-	-
39	Mia Khel		100	-	√	-	-	√	-	-	JUN	SEP	√	-	-	-	-	-
40	Naray Kalay		30	-	√	-	-	√	-	-	-	-	-	-	-	-	-	-
41	Qader Khel		70	√	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42	Shasherabad		100	√	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	Salam Khel	Afzal Khel	100	-	√	-	-	√	-	-	-	-	-	-	-	-	-	-
44	Salam Khel	Bike Khel	100	√	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	Salam Khel	Salu Khel	100	-	√	-	-	√	-	-	JUL	SEP	√	-	-	-	-	-
46	Salam Khel	Sra Qala	100	-	√	-	-	-	√	-	JUN	OCT	√	-	-	-	-	-
47	Salam Khel	Sur Sang	100	√	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	Sayed Khel		60	√	-	-	-	-	-	-	JUL	OCT	√	-	-	-	√	-
49	Serkay Malang		80	-	√	-	-	√	-	-	JUN	OCT	√	-	-	-	-	-
50	Sham Ghunday		20	-	√	-	-	√	-	-	JUN	NOV	√	-	-	√	-	-
51	Spina Qala		70	√	-	-	-	-	-	-	JUN	OCT	√	-	-	-	-	-

Appendix O1: Irrigation water sources, activities need for normal water flow and main reasons for water shortage in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Spring: % of land irrigated	Flow status: Normal	Flow status: Abnormal	Activities needed for normal flow: A	B	C	D	E	Water shortage period: From	To	Reasons for Irrigation water shortage: F	G	H	I	J	K
52	Sur Sangyan		100	-	√	-	-	√	-	-	-	-	-	-	-	-	-	-
53	Talbi Khel		100	-	√	-	-	-	√	-	-	-	-	-	-	-	-	-
54	Tand Gharak	Miw Khel	100	-	√	-	-	√	-	-	JUN	OCT	√	-	-	-	-	-
55	Tand Gharak	Seway	100	-	√	-	-	-	√	-	-	-	-	-	-	-	-	-
56	Usman Khel	Esa Khel	30	-	√	-	-	-	-	√	-	-	-	-	-	-	-	-
57	Yargul Khel		100	-	√	-	-	√	-	-	-	-	-	-	-	-	-	-

A= Protection wall
B= Construction of syohone
C= Repairing of related structures
D= Cleaning of spring
E= Construction of reservoir
F= Drought
G= Dam damaged by flood
H= Stream filled by flood
I= Karez damaged
J= water infiltration in steram

Appendix 01: Irrigation water sources, activities need for normal water flow and main reasons for water shortage in Sayed Karam district

				Well		Activities needed for normal flow					Water shortage period		Reasons for Irrigation water shortage					
				Flow status														
S/No	Main village	Sub village	% of land irrigated	Normal	Abnormal	A	B	C	D	E	From	To	F	G	H	I	J	K
1	Kosin	Shayasta Kalay	5	√	-	-	-	-	-	-	OCT	MAR	√	-	-	-	-	-
2	Merzaka	Chanjay Khwar	20	√	-	-	-	-	-	-	JUN	NOV	√	-	-	-	-	-
3	Serkay Malang		20	√	-	-	-	-	-	-	JUN	OCT	√	-	-	-	-	-

A= Protection wall
B= Construction of syohone
C= Repairing of related structures
D= Cleaning of spring
E= Construction of reservoir
F= Drought
G= Dam damaged by flood
H= Stream filled by flood
I= Karez damaged
J= water infiltration in steram

Appendix P: Livestock ownership and poultry in Gardez district

S/No	Main village	Sub village	No. of Cattle except oxen	No. of sheep + goats	No. of camel	No. of donkey	No. of horse	No. of chicken/ family	% of improved chicken
1	Ahangaran		45	100	0	0	0	15	10
2	Asalatbeg		40	100	0	0	0	12	0
3	Atam Kalay		20	30	0	5	0	8	0
4	Awdakay		260	150	0	80	0	8	0
5	Bala Deh	Afzal Khel	40	80	0	12	0	12	0
6	Bala Deh	Bala Deh	60	80	0	16	0	10	0
7	Bala Deh	Raies Khel	50	25	0	45	0	13	0
8	Bala Deh	Rodak	60	200	0	10	0	12	0
9	Banozai	Bano zai	30	300	0	15	0	8	0
10	Banozai	Darabal Kalay	30	30	0	0	0	4	0
11	Banozai	Salar Kalay	0	70	0	0	0	4	0
12	Chakan Shekhan		12	6	0	0	0	12	0
13	Chawanay	Metran Khel	100	300	0	70	0	12	5
14	Chawanay	Pahlawan Khel	80	100	0	20	0	6	5
15	Chawanay	Rabati	150	700	0	30	0	8	0
16	Dara		30	60	0	5	0	7	0
17	Dawlatzai	Habib Khel	40	100	0	10	0	20	0
18	Dawlatzai	Laghar	60	300	0	20	0	16	0
19	Dawlatzai	Ali Jan Khel	24	100	0	3	0	10	0
20	Dawlatzai	Dray Plari	15	100	0	4	0	6	0
21	Dawlatzai	Fathullah	80	200	0	15	0	10	0
22	Dawlatzai	Gadai Khel	10	150	0	0	0	8	0
23	Dawlatzai	Gajan	60	300	0	0	0	0	0
24	Dawlatzai	Ghunday Kalay	35	270	0	70	0	15	0
25	Dinar Khel		180	500	0	27	0	12	0
26	Doghabad		50	80	0	5	0	10	0
27	Golo Khel		40	240	0	10	0	10	0
28	Golo wall	Bar Golowall	48	30	0	20	0	12	0
29	Golowall	Kuz Golowall	50	150	0	12	0	13	0
30	Hemat Khel		25	15	0	5	0	8	0
31	Ibrahim Khel	Azami Khel	20	80	0	3	0	8	0

Appendix P: Livestock ownership and poultry in Gardez district (Cont..)

S/No	Main village	Sub village	No. of Cattle except oxen	No. of sheep + goats	No. of camel	No. of donkey	No. of horse	No. of chicken/ family	% of improved chicken
32	Ibrahim Khel	Bada Khel	40	200	0	25	0	6	0
33	Ibrahim Khel	Ghani Qala	30	200	0	4	0	6	0
34	Ibrahim Khel	Karama Khel	30	300	0	20	0	10	0
35	Ibrahim Khel	Mashad Khel	50	150	0	10	0	5	0
36	Ibrahim Khel	Pakhary	25	70	0	2	0	9	0
37	Ibrahim Khel	Pirzad Khel	60	100	0	40	0	8	0
38	Ibrahim Khel	Rahmat Khel	100	250	0	70	0	10	0
39	Ibrahim Khel	Raza Khel	13	20	0	3	0	8	0
40	Ibrahim Khel	Sadiq Khel	100	400	0	30	0	0	8
41	Ibrahim Khel	Sarwar Khel	30	60	0	17	0	8	0
42	Ibrahim Khel	Tabiban	12	60	0	6	0	13	0
43	Ibrahim Khel	Tan Khan Khel	60	150	0	0	0	8	0
44	Ibrahim Khel	Walyan	40	50	0	10	0	8	0
45	Karmashi		200	180	0	10	0	5	0
46	Khan Qala		25	40	0	10	0	8	0
47	Khataba	Sadiq Khel	200	400	0	50	0	9	0
48	Khataba	Shakar Khel	200	300	0	30	0	16	5
49	Khataba	Shekhano Qala	30	90	0	4	0	12	0
50	Khwaja Hassan	Khwaja Hassan Ulya	50	100	0	20	0	8	2
51	Khwaja Hassan	Khwaja Hassan Sufla	90	50	0	1	0	7	3
52	Kochi Khel		300	400	0	40	0	0	0
53	Kwash	Azgana	50	200	0	10	0	6	0
54	Kwash	Bar Kwash	50	100	0	10	0	6	0
55	Kwash	Koz Kwash	30	100	0	0	0	5	0
56	Kwash	Pakhari	0	150	0	1	0	9	0
57	Mahmud Qala		80	200	0	10	0	10	2
58	Malik Khel		250	100	0	20	0	10	0
59	Melan	Doaba	100	300	0	20	0	9	0
60	Melan	Habib Qala	80	130	0	15	0	10	0
61	Melan	Hajiano Kalay	65	80	0	24	0	12	0
62	Melan	Melan	100	200	0	25	0	7	0

Appendix P: Livestock ownership and poultry in Gardez district (Cont..)

S/No	Main village	Sub village	No. of Cattle except oxen	No. of sheep + goats	No. of camel	No. of donkey	No. of horse	No. of chicken/ family	% of improved chicken
63	Melan	Shekhan	5	20	0	1	0	8	0
64	Mia Noor Qala		40	50	0	5	0	12	0
65	Mohd Raza Khel		20	200	0	15	0	15	0
66	Mumray		90	50	0	60	0	12	0
67	Niazi Qala		100	400	0	30	0	10	0
68	Nisti Kot	Kuz Nistikot	13	150	0	4	0	12	0
69	Nistikot	Bar Nistikot	170	600	0	30	0	8	0
70	Pushta		50	15	0	10	0	8	0
71	Qala-e-Arjal		16	0	0	0	0	5	0
72	Qala-e-Dahbashi		20	80	0	9	0	10	0
73	Qala-e-Halim		130	220	0	40	0	12	0
74	Qala-e-Sarsang		40	60	0	10	0	7	0
75	Qala-e-Sayedan		70	100	0	63	0	15	0
76	Qala-e-Zargar		20	45	0	5	0	10	0
77	Rabat	Rabat	250	1000	0	50	0	5	0
78	Rabat	Shah-e-Qadam	30	600	0	10	0	8	0
79	Sadat Khel		60	200	0	15	0	0	0
80	Saidan	Mashayan	20	60	0	0	0	5	0
81	Saparai		60	300	0	15	0	10	0
82	Sarkary Qala		70	600	0	60	0	10	0
83	Sepahi Khel		30	700	0	12	0	8	0
84	Shahr-e-Naw		40	0	0	0	0	12	5
85	Shekhan		30	160	0	5	0	6	0
86	Shekhan		1000	300	0	60	0	10	0
87	Shekhan		45	300	0	8	0	12	0
88	Talbi Khel		8	20	0	6	0	10	0
89	Teray	Azad Khan Khel	10	150	0	9	0	8	0
90	Teray	Bagho Kalay	10	16	0	3	0	8	0
91	Teray	Charmakhkay	60	200	0	15	0	10	0
92	Teray	Fazal Qala	18	42	0	8	0	10	0
93	Teray	Ghafur Khel	30	80	0	3	0	13	0

Enumerators found eight madrassas functioning in the surveyed area where 1,112 students were studying. Five of the those madrassas were funded by the community while three others were funded by the government.

Table 7.3: Number of literate people

District	No. of villages surveyed	Male			Female		
		15-30	31-45	>45	15-30	31-45	>45
Gardez	109	1504	796	311	148	58	17
Sayed Karam	109	1269	881	304	36	16	3

The data has demonstrated that there are 4,118 children aged 6-14 that have not attended school. The survey has recorded a total of 5,065 literate males and 223 literate females in the surveyed area (see Table 7.3 and Appendix S-S1). Of 218 villages, 172 villages (79%) expressed their interest for participation in the establishment of a school/Madrasa for their children (see Appendix S-S1).

8. HEALTH

The surveyors found only four clinics in both Gardez and Sayed Karam districts. All of the clinics had buildings and the status of the them were reported as undamaged. One clinic in Gardez and one clinic in Sayed Karam funded by SCA. Two others were funded by government and doctors. The medical staff of the clinics included 16 doctors and 16 nurses. A total of 130 midwives were reported in the surveyed area (see Table 8.1).

Table 8.1: Health facilities

District	Name of clinic	Location	having building	status of building	No. of rooms	Funding source	No.of		
							doctors	nurses	midwifes in all district
Gardez	Bala deh	Raies Khel	Y	Undamaged	5	SCA	2	3	49
	National hospital	Ahangaran	Y	Undamaged	55	Govt.	10	10	
Sayed Karam	Sayed Karam	Kotkay	Y	Undamaged	4	SCA	1	2	81
	Machal Ghu	Akbarkhel	Y	Undamaged	10	Doctors	3	1	

The diseases recorded for adult are bronchitis, flue, dysentery, diarrhoea, skin diseases, malaria, pneumonia, and typhoid. Children are generally infected by bronchitis, impetigo, diarrhoea, malaria and pneumonia.

Appendix P: Livestock ownership and poultry in Gardez district (Cont..)

S/No	Main village	Sub village	No. of Cattle except oxen	No. of sheep + goats	No. of camel	No. of donkey	No. of horse	No. of chicken/ family	% of improved chicken
94	Teray	Kuz Lewan	20	100	0	5	0	8	0
95	Teray	Lewanian	16	40	0	8	0	6	0
96	Teray	Lewan	80	200	0	12	0	10	0
97	Teray	Momin Khel	140	260	0	25	0	9	0
98	Teray	Nawrakay	12	40	0	5	0	0	0
99	Teray	Samad Khel	10	30	0	6	0	12	0
100	Teray	Spina Qala	25	150	0	10	0	8	0
101	Teray	Sra Qala	14	30	0	10	0	13	0
102	Teray	Tandan	300	400	0	80	0	6	0
103	Teray	Tarkanan	300	500	0	80	0	12	0
104	Teray	Woch Khakh	20	2	0	2	0	5	0
105	Utmanay		10	40	0	2	0	12	0
106	Woch Gharak		100	500	0	60	0	20	0
107	Zawa		40	120	0	5	2	8	0

Appendix P1: Livestock ownership and poultry in Sayed Karam district

S/No	Main village	Sub village	No. of Cattle except oxen	No. of sheep + goats	No. of camel	No. of donkey	No. of horse	No. of chicken/ family	% of improved chicken
1	Ahmad Shah Khel		30	40	0	30	0	10	0
2	Andwam		400	1000	0	100	0	15	0
3	Arab Khel		25	10	0	6	0	7	0
4	Ashpan		30	80	0	10	0	6	0
5	Bar Sejenak		250	350	0	100	0	10	2
6	Bar Sejenak	Alamgay	12	50	0	10	0	10	0
7	Batyan Khel		2	0	0	0	0	5	0
8	Cher Rakay		170	300	0	110	0	12	0
9	Chino	Durrani	300	500	0	30	0	12	2
10	Chino	Chino	200	100	0	25	0	8	5
11	Chino	Chino Sar	400	2000	0	100	0	8	0
12	Dam	Ayubi	350	200	1	150	0	12	0
13	Dam	Khogory	80	200	0	40	0	10	0
14	Dam	Mir Ail Khel	60	100	0	30	0	6	0
15	Dawlat Khel		40	20	0	5	0	8	0
16	Gharak	Talkhan	40	400	0	20	0	9	0
17	Ghonday		140	500	0	50	0	14	0
18	Ghwareza		25	120	0	5	0	5	0
19	Gud Mangal Qala		60	95	0	15	0	16	0
20	Isa Khel		450	200	0	40	0	12	10
21	Jangi Khel		20	30	0	2	0	12	0
22	Kalgar	Mohd Amin Khel	30	80	0	3	0	8	0
23	Kamran Khel		300	400	0	18	0	10	0
24	Karezgay		200	600	0	40	0	10	0
25	Kerkin	Gorandi Shekhan	100	600	0	40	0	15	0
26	Kerkin	Jan Ghunday	30	200	0	20	0	10	0
27	Kerkin	Selarai	80	300	0	100	0	10	0
28	Kerkin	Sru Kholeh	200	800	0	150	1	10	0
29	Kerkin	Sur Petaw	200	400	0	100	0	10	0
30	Kerkin	Wocha Lagada	120	320	1	75	0	20	0
31	Kerkin Kholeh		70	500	0	100	0	7	0

Appendix P1: Livestock ownership and poultry in Sayed Karam district (Cont..)

S/No	Main village	Sub village	No. of Cattle except oxen	No. of sheep + goats	No. of camel	No. of donkey	No. of horse	No. of chicken/ family	% of improved chicken
32	Khanak Khel		45	50	0	12	0	12	5
33	Khand Khel	Khand Khel	150	200	0	250	0	15	3
34	Khand Khel	Lalak Kalay	35	10	0	10	0	9	0
35	Khawajar Khel		45	60	0	5	0	12	0
36	Kosin	Bar Khano Khel	200	500	0	30	0	20	0
37	Kosin	Gorgori Qala	30	100	0	5	0	15	0
38	Kosin	Kalgar	750	1500	0	0	0	15	5
39	Kosin	Khoshal Khel	100	150	0	70	0	15	0
40	Kosin	Kuz Khano Khel	500	100	0	40	0	20	0
41	Kosin	Masak Karez	50	40	0	6	0	8	0
42	Kosin	Shayasta Kalay	40	0	0	22	0	10	0
43	Kosin	Shekhan	60	15	0	30	0	10	0
44	Kotkay		80	60	0	0	0	10	5
45	Koz Feroz Khel		150	50	0	20	0	6	0
46	Kunder Khel		120	200	0	80	0	8	4
47	Kuz Sejenak	Kuz Sejenak	200	350	0	180	0	10	5
48	Kuz Sejenak	Tarai	120	300	0	30	0	12	0
49	Machal Ghu	Akbar Khel	10	20	0	5	0	10	10
50	Machal Ghu	Babakrey	40	200	0	10	0	12	0
51	Machal Ghu	Bazu Khel	70	140	0	30	0	8	0
52	Machal Ghu	Gandir Khel	30	100	0	10	0	10	0
53	Machal Ghu	Godian	50	30	0	20	0	13	0
54	Machal Ghu	Hassan Qala	50	300	0	30	0	7	0
55	Machal Ghu	Lewan	10	50	0	12	0	13	0
56	Machal Ghu	Mado Khel	30	100	0	10	0	11	10
57	Machal Ghu	Mamozai	40	200	0	0	0	14	0
58	Machal Ghu	Mulla Khel	100	80	0	20	0	20	5
59	Machal Ghu	Nagram	100	120	0	16	0	10	0
60	Machal Ghu	Nandar Khel	20	3	0	10	0	8	0
61	Machal Ghu	Nora Khel	40	300	0	50	0	12	10
62	Machal Ghu	Pala Khel	30	100	0	20	0	12	0

Appendix P1: Livestock ownership and poultry in Sayed Karam district (Cont..)

S/No	Main village	Sub village	No. of Cattle except oxen	No. of sheep + goats	No. of camel	No. of donkey	No. of horse	No. of chicken/ family	% of improved chicken
63	Machal Ghu	Salim Khan Khel	40	40	0	10	0	7	0
64	Machal Ghu	Sayed Khel	90	150	0	20	0	13	0
65	Machal Ghu	Spina Qala	80	120	0	30	0	10	0
66	Machal Ghu	Taro Khel	250	300	0	40	0	9	0
67	Machal Ghu	Toor Khel	30	200	0	15	0	10	0
68	Machal Ghu	Wach Khakh Qala	12	60	0	8	0	10	0
69	Mawroz Khel		60	50	0	1	0	14	0
70	Merzaka	Azad Khel	100	150	0	70	0	15	0
71	Merzaka	Batay	250	1600	0	100	0	15	0
72	Merzaka	Chanjay Khwar	150	20	0	75	2	15	0
73	Merzaka	Chungay	32	80	0	9	0	7	0
74	Merzaka	Garamay	250	380	0	50	0	12	0
75	Merzaka	Ghonzay	150	600	0	70	0	8	0
76	Merzaka	Hajiyan	200	300	0	40	0	0	0
77	Merzaka	Kajeray	100	600	0	70	0	14	0
78	Merzaka	Khalilan	90	300	0	60	0	15	0
79	Merzaka	Nora China	50	200	10	20	0	0	0
80	Merzakay	Serkay Tanga	70	250	0	50	0	15	0
81	Mia Khel		10	0	0	0	0	10	0
82	Naray Kalay		4	60	0	2	0	5	0
83	Nigram	Ainuddin Qala	20	35	0	10	0	9	0
84	Osman Khel	Mach	30	40	0	20	0	8	0
85	Osman Khel	Raza Khel	30	60	0	20	0	10	0
86	Qader Khel		130	100	0	60	0	13	0
87	Shamsherabad		130	200	0	25	0	8	0
88	Salam Khel	Afzal Khel	60	30	0	10	0	5	0
89	Salam Khel	Bike Khel	16	12	0	2	0	10	20
90	Salam Khel	Salu Khel	40	30	0	17	0	9	0
91	Salam Khel	Sra Qala	65	140	0	5	0	10	0
92	Salam Khel	Sur Sang	45	200	0	15	0	15	0
93	Salemi Nargay		30	80	0	5	0	10	0

Appendix P1: Livestock ownership and poultry in Sayed Karam district (Cont..)

S/No	Main village	Sub village	No. of Cattle except oxen	No. of sheep + goats	No. of camel	No. of donkey	No. of horse	No. of chicken/ family	% of improved chicken
94	Sarwar Qala		15	200	0	0	0	7	0
95	Sayed Khel		220	200	0	50	0	12	0
96	Serkay Malang		50	60	0	10	0	8	0
97	Sham Ghunday		40	200	0	15	0	12	0
98	Spina Qala		58	102	0	10	0	12	0
99	Sur Sangyan		20	0	0	0	0	10	0
100	Talbi Khel		34	50	0	10	0	5	10
101	Tand Gharak	Ataei Qala	13	0	0	5	0	12	0
102	Tand Gharak	Fazal Khel	60	150	0	50	0	15	0
103	Tand Gharak	Miw Khel	15	0	0	0	0	8	0
104	Tand Gharak	Seway	30	60	0	8	0	12	0
105	Tand Gharak	Zundi Khel	90	200	0	30	0	15	10
106	Usman Khel	Esa Khel	80	100	0	30	0	5	5
107	Usman Khel	Lewanian Khel	45	200	0	5	0	12	0
108	Yahya Khel		10	30	0	5	0	11	0
109	Yargul Khel		30	20	0	5	0	9	0

Appendix Q: Education facilities and funding sources in Gardez district

S/No	Main village	Sub village	School name	Establish year	School level				students		Children not attending school		number of male teacher	fund		
					A	B	C	D	Boys	Girls	Boys	Girls		E	F	G
1	Ahangaran		Ahangaran	1951	-	√	-	-	600	0	200	0	5	√	-	-
2	Aslatbeg		Aslatbeg	2000	√	-	-	-	29	12	9	16	1	-	√	-
3	Bala Deh	Bala Deh	Bala Deh	2000	-	√	-	-	65	30	0	0	5	-	-	√
4	Dawlatzai	Laghar	Dawlatzai	1999	-	√	-	-	200	0	16	20	4	√	-	-
5	Ibrahim Khel	Azami Khel	Ibrahim Khel	1963	-	√	-	-	250	0	10	12	7	-	√	-
6	Karmashi		Sha Qamber	1997	-	√	-	-	480	180	25	15	12	√	-	√
7	Khataba	Shekhano Qala	Abu Bakar sidiq	1999	√	-	-	-	32	12	20	16	1	-	√	-
8	Kwash	Bar Kwash	Bar Kwash	2000	√	-	-	-	20	10	0	0	1	-	√	-
9	Kwash	Koz Kwash	koz kwash	2000	√	-	-	-	10	16	5	8	1	-	√	√
10	Mahmud Qala		Mahmud Qala	1994	-	√	-	-	145	0	40	100	2	√	-	√
11	Melan	Habib Qala	Ali Abdurrahma	1936	-	-	√	-	200	0	30	40	5	-	-	√
12	Pushta		Sofi Sahib	2000	-	√	-	-	15	17	8	10	1	-	√	√
13	Qala Halim		Halim Qala	1995	-	√	-	-	35	5	40	60	2	√	-	-
14	Qala-e-Dahbashi		Dehbashi school	1998	√	-	-	-	55	25	7	6	3	-	√	-
15	Rabat	Rabat	Rabat school	2000	-	√	-	-	33	12	120	150	1	-	-	√
16	Sadat Khel		Sadat Khel	1999	√	-	-	-	30	12	30	50	1	-	√	√
17	Saparai		Saprai	1999	√	-	-	-	60	30	40	80	1	-	√	√
18	Shahr-e-Naw		A. Hai Gardezi	1944	-	-	-	√	2000	0	50	120	35	-	√	-
19	Shekhan		Shekhan	1999	-	√	-	-	260	0	70	30	5	√	-	-
20	Teray	Lewanian	Teray school	1994	-	-	√	-	120	0	5	20	6	√	-	-
21	Teray	Momin Khel	Shamsul Madaris	1994	-	√	-	-	200	0	150	160	6	-	-	√
22	Teray	Tandan	Sayadat school	2000	√	-	-	-	52	10	20	20	2	√	√	-
23	Woch Gharak		Woch Gharak	2000	√	-	-	-	44	22	30	40	1	-	√	√

Appendix Q: Education facilities and funding sources in Gardez district (Cont..)

S/No	Main village	Sub village	School name	Establish year	School level A	B	C	D	students Boys	Girls	Children not attending school Boys	Girls	number of male teacher	fund E	F	G
24	Zawa		Dara school	1997	-	√	-	-	60	0	2	30	2	-	-	√

A= Home school B= Primary C= Middle D= High school E= Government
F= NGO (CARE, IRC, SCA, LDI) G= Community

Appendix Q1: Education facilities and funding sources in Sayed Karam district

S/No	Main village	Sub village	School name	Establish year	School level				students		Children not attending school		number of male teacher	fund		
					A	B	C	D	Boys	Girls	Boys	Girls		E	F	G
1	Andwam		Andwam	1996	-	-	√	-	400	0	60	100	5	-	-	√
2	Ashpan		Ashpan school	1999	√	-	-	-	45	0	20	30	1	-	√	√
3	Bar Sejenak		Bar Sejenak	1999	√	-	-	-	40	0	90	100	1	-	√	√
4	Kalgar	Mohd Amin Khel	Nawroz Khel	1999	√	-	-	-	100	0	25	20	2	-	√	√
5	Karezgay		Karezgay	1999	√	-	-	-	80	0	30	40	2	-	√	√
6	Kerkin	Wocha Lagada	Lagad school	1998	-	√	-	-	250	0	20	25	3	√	-	-
7	Khand Khel	Khand Khel	Wali Khel	1999	√	-	-	-	140	42	200	200	2	-	√	√
8	Kotkay		Kundar Khel	1936	-	-	-	√	400	0	15	11	11	-	√	-
9	Kuz Sejenak	Kuz Sejenak	Mano Khel	1999	√	-	-	-	110	0	20	0	3	-	√	√
10	Machal Ghu	Bazu Khel	Nakar Khel	2000	√	-	-	-	25	10	50	14	1	-	√	√
11	Machal Ghu	Hassan Qala	Hassan Qala	1998	√	-	-	-	45	15	5	8	1	-	√	√
12	Machal Ghu	Lewan	Isa Khel	2000	√	-	-	-	35	13	18	10	1	-	√	√
13	Machal Ghu	Mamozai	Mamozai	1998	-	√	-	-	180	20	20	15	1	-	√	√
14	Machal Ghu	Mulla Khel	Mulla Khel	1998	-	√	-	-	50	6	20	20	1	-	√	√
15	Machal Ghu	Nagram	Nagram	1998	√	-	-	-	46	31	30	30	2	-	√	√
16	Machal Ghu	Nora Khel	Hayt Baba	2000	√	-	-	-	58	12	30	40	1	-	√	√
17	Machal Ghu	Pala Khel	Pala Khel	2000	√	-	-	-	45	13	20	40	1	-	√	√
18	Machal Ghu	Sayed Khel	Sayed Khel	2000	√	-	-	-	56	15	70	60	2	√	-	-
19	Machal Ghu	Spina Qala	Spina Qala	1998	√	-	-	-	50	35	70	90	1	-	√	√
20	Machal Ghu	Taro Khel	Kotki school	1998	√	-	-	-	50	15	100	120	1	-	√	√
21	Merzaka	Khalilan	Khalilan	1969	-	√	-	-	100	0	0	0	4	-	-	√
22	Salam Khel	Sur Sang	Sur Sang	1997	-	√	-	-	40	0	12	50	1	-	-	√
23	Talbi Khel		Road Ahmadi	1967	-	-	-	√	40	0	20	40	6	√	-	-
24	Tand Ghurak	Fazal Khel	Gharak	2000	-	√	-	-	160	0	50	70	2	√	-	√

Appendix Q1: Education facilities and funding sources in Sayed Karam district (Cont..)

S/No	Main village	Sub village	School name	Establish year	School level A	B	C	D	students Boys	Girls	Children not attending school Boys	Girls	number of male teacher	fund E	F	G
25	Usman Khel	Esa Khel	Usman Khel	1998	-	√	-	-	50	0	35	25	1	-	√	√

A= Home school   B= Primary   C= Middle   D= High school   E= Government

F= NGO (CARE, IRC, SCA)   G= Community

Appendix R: Status of school buildings in Gardez district

S/No	Main village	Sub village	school building	Status of school building: Damaged	Status of school building: Undamaged	Number of rooms	School building belong: Government	School building belong: Community	School building belong: Rent
1	Ahangaran		Y	-	√	10	√	-	-
2	Aslatbeg		N	-	-	0	-	-	-
3	Bala Deh	Bala Deh	N	-	-	0	-	-	-
4	Dawlatzai	Laghar	N	-	-	0	-	-	-
5	Ibrahim Khel	Azami Khel	Y	-	√	9	√	-	-
6	Karmashi		Y	-	√	8	√	-	-
7	Khataba	Shekhano Qala	N	-	-	0	-	-	-
8	Kwash	Bar Kwash	N	-	-	0	-	-	-
9	Kwash	Koz Kwash	N	-	-	0	-	-	-
10	Mahmud Qala		N	-	-	0	-	-	-
11	Melan	Habib Qala	Y	√	-	2	√	-	-
12	Pushta		N	-	-	0	-	-	-
13	Qala Halim		N	-	-	0	-	-	-
14	Qala-e-Dahbashi		N	-	-	0	-	-	-
15	Rabat	Rabat	Y	√	-	2	-	√	-
16	Sadat Khel		N	-	-	0	-	-	-
17	Saparai		N	-	-	0	-	-	-
18	Shahr-e-Naw		Y	-	√	18	√	-	-
19	Shekhan		N	-	-	0	-	-	-
20	Teray	Lewanian	Y	-	√	12	√	-	-
21	Teray	Momin Khel	Y	-	√	9	-	√	-
22	Teray	Tandan	N	-	-	0	-	-	-
23	Woch Gharak		N	-	-	0	-	-	-
24	Zawa		N	-	-	0	-	-	-

9. LAND MINES

The existence of mines was reported in the houses, roads, agricultural land, forests near villages, grazing land near villages, mountains, irrigation system and near wash (see Table 9.1 and Appendix T-T1).

Table 9.1: Mine location

Location	No. of villages replied	
	Gardez	Sayed Karam
In houses	2	1
In road	4	6
In agricultural land	15	5
In irrigation system	2	1
In forest near village	3	-
In grazing land near village	22	10
In mountains	3	3
Near wash	1	-

A total of 213 deaths and 108 disabled people were recorded in 54 villages. A total of 1,423 animals were killed by the mines during the war (see Table 9.2 and Appendix T-T1).

Table 9.2: Mine victims

District	No. of villages surveyed	No. of			
		villages	people		animals
		reported	Died	disabled	died
Gardez	109	35	151	66	1092
Sayed Karam	109	19	62	42	331

10. INCOME GENERATION

A total of 2,265 male, 212 female and 11 disable skilled people were reported in the surveyed area. Those people were barbers, blacksmiths, carpenters, cobblers, daily workers, drivers, embroiders, masons, mechanics, potters, tailors and watch-makers. Most of the villagers (1,771) are busy in driving. However, the highest average income was reported for daily working and machinery (for more details see Tables 10.1 and 10.2 and Appendix U-U1).

Table 10.1: Number of skilled people

District	No. Of villages Surveyed	No. of skilled people		
		Male	Female	Disable
Gardez	109	1127	121	3
Sayed Karam	109	1838	91	8

Appendix R1: Status of school buildings in Sayed Karam district

S/No	Main village	Sub village	school building	Status of school building: Damaged	Status of school building: Undamaged	Number of rooms	School building belong: Government	School building belong: Community	School building belong: Rent
1	Andwam		Y	-	√	6	-	√	-
2	Ashpan		N	-	-	0	-	-	-
3	Bar Sejenak		N	-	-	0	-	-	-
4	Kalgar	Mohd Amin Khel	N	-	-	0	-	-	-
5	Karezgay		N	-	-	0	-	-	-
6	Kerkin	Wocha Lagada	Y	-	√	6	√	-	-
7	Khand Khel	Khand Khel	N	-	-	0	-	-	-
8	Kotkay		Y	-	√	6	√	-	-
9	Kuz Sejenak	Kuz Sejenak	N	-	-	0	-	-	-
10	Machal Ghu	Bazu Khel	N	-	-	0	-	-	-
11	Machal Ghu	Hassan Qala	N	-	-	0	-	-	-
12	Machal Ghu	Lewan	N	-	-	0	-	-	-
13	Machal Ghu	Mamozai	N	-	-	0	-	-	-
14	Machal Ghu	Mulla Khel	N	-	-	0	-	-	-
15	Machal Ghu	Nagram	N	-	-	0	-	-	-
16	Machal Ghu	Nora Khel	N	-	-	0	-	-	-
17	Machal Ghu	Pala Khel	N	-	-	0	-	-	-
18	Machal Ghu	Sayed Khel	N	-	-	0	-	-	-
19	Machal Ghu	Spina Qala	N	-	-	0	-	-	-
20	Machal Ghu	Taro Khel	N	-	-	0	-	-	-
21	Merzaka	Khalilan	Y	√	-	8	-	√	-
22	Salam Khel	Sur Sang	N	-	-	0	-	-	-
23	Talbi Khel		Y	-	√	18	√	-	-
24	Tand Ghurak	Fazal Khel	Y	√	-	8	√	-	-
25	Usman Khel	Esa Khel	N	-	-	0	-	-	-

Appendix S: Number of literate people in Gardez district

S/No	Main village	Sub village	Number of literate people age (15-30) Male	Number of literate people age (15-30) Female	Number of literate people age (31-45) Male	Number of literate people age (31-45) Female	Number of literate people age >45 Male	Number of literate people age >45 Female	Distance from the nearest school (Km)	Parents interested in a school
1	Ahangaran		18	2	12	6	8	1	0.0	N
2	Aslatbeg		15	0	6	0	0	0	0.0	N
3	Atam Kalay		6	0	0	0	0	0	1.0	Y
4	Awdakay		20	0	0	0	0	0	0.0	Y
5	Bala Deh	Afzal Khel	8	0	10	0	4	0	0.5	Y
6	Bala Deh	Bala Deh	5	0	10	0	8	0	0.0	N
7	Bala Deh	Raies Khel	12	0	18	0	9	0	0.5	Y
8	Bala Deh	Rodak	30	0	20	1	0	0	2.0	Y
9	Banozai	Banozai	6	0	0	0	1	0	6.0	N
10	Banozai	Darabal	4	0	0	0	0	0	6.0	Y
11	Banozai	Salar Kalay	0	0	0	0	0	0	6.0	Y
12	Chakan Shekhan		2	0	4	0	0	0	5.0	Y
13	Chawanay	Metran Khel	30	0	15	0	3	0	7.0	Y
14	Chawanay	Pahlawan Khel	10	0	4	0	1	0	5.0	Y
15	Chawanay	Rabati	8	0	0	0	0	0	3.0	Y
16	Dara		3	0	0	0	0	0	0.0	Y
17	Dawlatzai	Habib Khel	8	0	6	0	0	0	2.0	Y
18	Dawlatzai	Laghar	5	0	8	0	0	0	0.0	N
19	Dawlatzai	Ali Jan Khel	15	0	10	0	0	0	1.0	Y
20	Dawlatzai	Dray Plari	8	0	3	0	0	0	3.0	Y
21	Dawlatzai	Fathullah	50	0	10	0	5	0	3.0	Y
22	Dawlatzai	Gadai Khel	5	0	0	0	2	0	1.5	Y
23	Dawlatzai	Gajan	1	0	0	0	0	0	0.5	Y
24	Dawlatzai	Ghunday Kalay	15	0	10	0	2	0	1.0	Y
25	Dinar Khel		6	0	4	0	1	0	15.0	Y
26	Doghabad		30	0	20	0	12	0	1.5	Y
27	Golo Khel		5	0	0	0	0	0	2.0	Y
28	Golowall	Bar Golowall	6	0	4	0	4	0	1.5	Y
29	Golowall	Kuz Golowall	8	0	1	0	0	2	2.0	Y
30	Hemat Khel		8	0	0	0	0	0	0.5	Y
31	Ibrahim Khel	Azami Khel	5	0	3	0	1	0	0.0	N

Appendix S: Number of literate people in Gardez district (Cont..)

S/No	Main village	Sub village	Number of literate people age (15-30) Male	Number of literate people age (15-30) Female	Number of literate people age (31-45) Male	Number of literate people age (31-45) Female	Number of literate people age >45 Male	Number of literate people age >45 Female	Distance from the nearest school (Km)	Parents interested in a school
32	Ibrahim Khel	Bada Khel	10	0	5	0	3	0	2.6	Y
33	Ibrahim Khel	Ghani Qala	6	0	1	0	0	0	2.0	Y
34	Ibrahim Khel	Karama Khel	6	0	4	0	0	0	2.0	Y
35	Ibrahim Khel	Mashad Khel	4	0	3	0	1	0	4.0	N
36	Ibrahim Khel	Pakhary	10	0	12	0	0	0	6.0	Y
37	Ibrahim Khel	Pirzad Khel	9	0	6	0	2	0	1.0	Y
38	Ibrahim Khel	Rahmat Khel	16	0	7	0	8	0	2.0	Y
39	Ibrahim Khel	Raza Khel	2	0	1	0	0	0	0.5	Y
40	Ibrahim Khel	Sadiq Khel	20	0	10	0	4	0	1.5	Y
41	Ibrahim Khel	Sarwar Khel	6	0	3	0	1	0	4.0	Y
42	Ibrahim Khel	Tabiban	10	0	5	0	1	0	4.0	Y
43	Ibrahim Khel	Tan Khan Khel	10	0	0	0	0	0	4.0	Y
44	Ibrahim Khel	Walyan	10	0	8	0	7	0	3.0	N
45	Karmashi		40	20	50	0	20	0	0.0	N
46	Khan Qala		5	0	3	0	0	0	5.0	Y
47	Khataba	Sadiq Khel	45	5	15	2	2	0	2.5	Y
48	Khataba	Shakar Khel	20	10	15	0	8	0	1.0	Y
49	Khataba	Shekhano Qala	6	0	3	0	0	0	0.0	N
50	Khwaja Hassan	Khwaja Hassan Uly	100	20	70	9	50	9	1.5	Y
51	Khwaja Hassan	Khwaja Hassan Sufla	80	20	40	9	30	5	1.0	Y
52	Kochi Khel		20	1	18	5	9	0	1.0	N
53	Kwash	Azgana	30	0	5	0	2	0	10.0	Y
54	Kwash	Bar Kwash	10	0	6	0	0	0	0.0	N
55	Kwash	Koz Kwash	10	0	0	0	1	0	0.0	N
56	Kwash	Pakhari	0	0	0	0	0	0	1.0	Y
57	Mahmud Qala		5	0	6	0	6	0	0.0	N
58	Melan	Doaba	10	0	6	0	0	0	1.0	Y
59	Melan	Habib Qala	20	0	15	0	10	0	0.0	N
60	Melan	Hajiano Kalay	15	0	12	0	6	0	2.0	N
61	Melan	Melan	20	0	10	0	6	0	4.0	Y
62	Melan	Shekhan	0	0	0	0	0	0	2.0	Y

Appendix S: Number of literate people in Gardez district (Cont..)

S/No	Main village	Sub village	Number of literate people age (15-30) Male	Number of literate people age (15-30) Female	Number of literate people age (31-45) Male	Number of literate people age (31-45) Female	Number of literate people age >45 Male	Number of literate people age >45 Female	Distance from the nearest school (Km)	Parents interested in a school
63	Mia Noor Khel		50	20	20	9	10	0	1.5	Y
64	Mianur Qala		5	0	7	0	2	0	0.0	Y
65	Mohd Raza Khel		0	0	0	0	0	0	7.0	Y
66	Mumray		10	4	15	6	12	0	3.0	Y
67	Niazi Qala		15	0	0	0	0	0	5.0	Y
68	Nisti Kot	Kuz Nistikot	0	0	0	0	0	0	1.0	N
69	Nistikot	Bar Nistikot	6	0	2	0	0	0	3.0	Y
70	Pushta		10	4	5	0	0	0	0.0	Y
71	Qala Halim		8	0	6	0	4	0	0.0	N
72	Qala-e-Arjal		15	0	10	0	3	0	1.5	Y
73	Qala-e-Dahbashi		5	0	3	0	0	0	0.0	N
74	Qala-e-Sarsang		30	0	18	0	10	0	0.3	Y
75	Qala-e-Sayedan		30	0	10	0	0	0	1.0	Y
76	Qala-e-Zargar		2	1	5	2	3	0	2.0	Y
77	Rabat	Rabat	27	0	5	0	2	0	0.0	Y
78	Rabat	Shah-e-Qadam	15	0	6	0	0	0	3.0	Y
79	Sadat Khel		0	0	2	0	0	0	0.0	Y
80	Saidan	Mashayan	4	0	3	0	0	0	2.0	Y
81	Saparai		0	0	2	0	0	0	0.0	Y
82	Sarkary Qala		6	0	2	0	0	0	8.0	Y
83	Sepahi Khel		5	1	0	0	2	0	15.0	Y
84	Shahr-e-Naw		60	30	35	9	20	0	0.0	N
85	Shekhan		20	0	10	0	4	0	7.0	Y
86	Shekhan		150	10	60	0	0	0	0.0	Y
87	Shekhan		8	0	4	0	1	0	13.0	Y
88	Talbi Khel		1	0	0	0	0	0	1.0	Y
89	Teray	Azad Khan Khel	0	0	0	0	0	0	14.0	Y
90	Teray	Bagho Kalay	0	0	0	0	0	0	4.0	N
91	Teray	Charmakhkay	5	0	0	0	0	0	0.1	Y
92	Teray	Fazal Qala	0	0	0	0	0	0	3.0	Y
93	Teray	Ghafur Khel	4	0	0	0	0	0	7.0	Y

Appendix S: Number of literate people in Gardez district (Cont..)

S/No	Main village	Sub village	Number of literate people age (15-30)		Number of literate people age (31-45)		Number of literate people age >45		Distance from the nearest school (Km)	Parents interested in a school
			Male	Female	Male	Female	Male	Female		
94	Teray	Kuz Lewan	4	0	1	0	0	0	2.0	Y
95	Teray	Lewanian	0	0	0	0	0	0	0.0	Y
96	Teray	Lewan	15	0	5	0	0	0	1.0	Y
97	Teray	Momin Khel	40	0	15	0	0	0	0.0	N
98	Teray	Nawrakay	0	0	0	0	0	0	5.0	Y
99	Teray	Samad Khel	0	0	3	0	0	0	1.0	Y
100	Teray	Spina Qala	3	0	0	0	0	0	3.0	Y
101	Teray	Sra Qala	0	0	0	0	0	0	1.5	Y
102	Teray	Tandan	9	0	0	0	0	0	0.0	N
103	Teray	Tarkanan	20	0	12	0	0	0	1.0	Y
104	Teray	Woch Khakh	0	0	0	0	0	0	7.0	Y
105	Utmanay		2	0	2	0	0	0	3.0	Y
106	Woch Gharak		3	0	1	0	0	0	0.0	Y
107	Zawa		8	0	5	0	0	0	0.0	N

Appendix S1: Number of literate people in Sayed Karam district

S/No	Main village	Sub village	Number of literate people age (15-30) Male	Number of literate people age (15-30) Female	Number of literate people age (31-45) Male	Number of literate people age (31-45) Female	Number of literate people age >45 Male	Number of literate people age >45 Female	Distance from the nearest school (Km)	Parents interested in a school
1	Ahmad Shah Khel		1	0	4	0	0	0	1.0	Y
2	Andwam		30	0	20	0	0	0	0.0	Y
3	Arab Khel		5	0	10	0	0	0	1.1	Y
4	Ashpan		6	0	0	0	0	0	0.0	N
5	Bar Sejenak		30	0	12	0	6	0	0.0	Y
6	Bar Sejenak	Alamgay	0	0	0	0	0	0	1.0	Y
7	Batyan Khel		0	0	0	0	0	0	1.2	Y
8	Cher Rakay		10	0	2	0	1	0	2.0	Y
9	Chino	Chino	20	0	11	0	2	0	2.0	Y
10	Chino	Durrani	50	0	30	0	20	0	2.5	Y
11	Chino	Chino Sar	8	0	0	0	0	0	18.0	Y
12	Dam	Ayubi	10	3	15	0	0	0	0.0	Y
13	Dam	Khogory	8	0	6	0	0	0	1.5	Y
14	Dam	Mir Ail Khel	0	0	8	0	0	0	1.0	Y
15	Dawlat Khel		0	0	10	0	6	0	1.0	Y
16	Gharak	Talkhan	5	0	5	0	0	0	2.0	N
17	Ghonday		0	0	15	0	0	0	1.0	Y
18	Ghwareza		2	0	0	0	0	0	11.0	Y
19	Gud Mangal Qala		8	0	12	0	2	0	2.5	Y
20	Isa Khel		10	0	20	0	15	0	3.0	Y
21	Jangi Khel		8	0	2	0	1	0	1.0	Y
22	Kalgar	Mohd Amin Khel	15	0	8	0	5	0	0.0	N
23	Kamran Khel		15	0	10	0	0	0	1.5	Y
24	Karezgay		0	0	3	0	0	0	0.0	Y
25	Kerkin	Gorandi Shekhan	4	0	0	0	0	0	4.0	Y
26	Kerkin	Jan Ghunday	8	0	5	0	0	0	1.0	Y
27	Kerkin	Selarai	15	0	10	0	0	0	2.0	N
28	Kerkin	Sur Kholeh	0	0	0	0	0	0	2.0	Y
29	Kerkin	Sur Petaw	10	0	2	0	0	0	3.0	Y
30	Kerkin	Wocha Lagada	15	0	6	0	1	0	0.0	N
31	Kerkin Kholeh		30	0	20	0	0	0	3.0	Y

Appendix S1: Number of literate people in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Number of literate people age (15-30) Male	Female	Number of literate people age (31-45) Male	Female	Number of literate people age >45 Male	Female	Distance from the nearest school (Km)	Parents interested in a school
32	Khan Khel		20	2	28	1	5	0	1.0	Y
33	Khand Khel	Khand Khel	100	0	60	0	50	0	0.0	Y
34	Khand Khel	Lalak Kalay	15	0	8	0	0	0	2.0	Y
35	Khawajar Khel		8	0	12	0	4	0	10.0	Y
36	Kosin	Bar Khano Khel	30	0	20	0	15	0	1.0	Y
37	Kosin	Gorgori Qala	10	0	7	0	2	0	2.0	Y
38	Kosin	Kalgar	36	0	20	0	10	0	0.0	N
39	Kosin	Khoshal Khel	30	0	10	0	2	0	10.0	Y
40	Kosin	Kuz Khano Khel	40	0	20	0	10	0	6.0	Y
41	Kosin	Masak Karez	2	0	0	0	0	0	4.0	Y
42	Kosin	Shayasta Kalay	4	0	10	0	0	0	7.0	Y
43	Kosin	Shekhan	20	0	15	0	10	0	4.0	Y
44	Kotkay		40	2	28	0	20	0	0.0	Y
45	Koz Feroz Khel		8	0	6	0	5	0	3.0	Y
46	Kunder Khel		10	0	20	0	3	0	0.0	Y
47	Kuz Sejenak	Kuz Sejenak	13	5	40	0	30	0	0.0	N
48	Kuz Sejenak	Tarai	4	0	0	0	0	0	1.0	Y
49	Machal Ghu	Akbar Khel	0	0	0	0	0	0	2.0	Y
50	Machal Ghu	Babakrey	3	0	0	0	0	0	7.5	Y
51	Machal Ghu	Bazu Khel	5	0	0	0	0	0	0.0	N
52	Machal Ghu	Gandir Khel	20	0	5	0	0	0	1.0	Y
53	Machal Ghu	Godian	0	0	0	0	0	0	1.0	Y
54	Machal Ghu	Hassan Qala	0	0	3	0	0	0	0.0	Y
55	Machal Ghu	Lewan	1	0	0	0	0	0	0.0	Y
56	Machal Ghu	Mado Khel	3	0	0	0	0	0	4.0	Y
57	Machal Ghu	Mamozai	6	0	2	0	0	0	0.0	Y
58	Machal Ghu	Mulla Khel	0	0	0	0	0	0	0.0	Y
59	Machal Ghu	Nagram	8	0	8	0	0	0	0.0	N
60	Machal Ghu	Nandar Khel	6	0	0	0	0	0	1.0	Y
61	Machal Ghu	Nora Khel	15	0	0	0	0	0	0.0	Y
62	Machal Ghu	Pala Khel	6	0	4	0	0	0	0.0	Y

Appendix S1: Number of literate people in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Number of literate people age (15-30) Male	Female	Number of literate people age (31-45) Male	Female	Number of literate people age >45 Male	Female	Distance from the nearest school (Km)	Parents interested in a school
63	Machal Ghu	Salim Khan Khel	10	0	10	0	0	0	1.0	Y
64	Machal Ghu	Sayed Khel	12	0	4	0	0	0	0.0	Y
65	Machal Ghu	Spina Qala	10	0	8	0	0	0	0.0	N
66	Machal Ghu	Taro Khel	5	0	0	0	0	0	0.0	Y
67	Machal Ghu	Toor Khel	12	0	3	0	0	0	1.0	Y
68	Machal Ghu	Wach Khakh Qala	0	0	0	0	0	0	3.0	Y
69	Mawroz Khel		30	6	15	2	0	0	1.5	Y
70	Merzaka	Azad Khel	10	0	2	0	0	0	2.0	Y
71	Merzaka	Batay	20	0	4	0	0	0	2.0	Y
72	Merzaka	Chanjay Khwar	30	0	15	0	2	0	2.0	Y
73	Merzaka	Chungay	4	0	0	0	0	0	3.0	Y
74	Merzaka	Garamay	3	0	0	0	0	0	3.0	Y
75	Merzaka	Ghonzay	7	0	0	0	0	0	2.0	Y
76	Merzaka	Hajiyan	6	0	5	0	0	0	3.0	Y
77	Merzaka	Kajeray	20	0	15	0	0	0	3.0	Y
78	Merzaka	Khalilan	30	0	10	0	10	0	0.0	Y
79	Merzaka	Serkay Tanga	4	0	0	0	0	0	2.0	Y
80	Mia Khel		4	0	6	0	0	0	2.0	Y
81	Mir Zaka	Nora China	0	0	0	0	0	0	3.0	Y
82	Naray Kalay		0	0	0	0	0	0	4.0	Y
83	Nigram	Ainuddin Qala	12	0	3	0	0	0	2.0	Y
84	Osman Khel	Mach	2	0	9	0	0	0	4.0	Y
85	Osman Khel	Raza Khel	6	0	3	0	2	0	2.0	Y
86	Qader Khel		8	0	14	0	5	0	0.5	N
87	Salam Khel	Afzal Khel	25	0	10	0	3	0	3.0	Y
88	Salam Khel	Bike Khel	0	0	4	0	0	0	0.0	Y
89	Salam Khel	Salu Khel	13	2	7	0	0	0	3.0	Y
90	Salam Khel	Sra Qala	2	0	6	0	0	0	1.5	Y
91	Salam Khel	Sur Sang	8	0	12	0	3	0	0.0	Y
92	Salemi Nargay		2	0	0	0	0	0	4.0	Y
93	Sarwar Qala		10	0	5	0	3	0	3.5	Y

Appendix S1: Number of literate people in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Number of literate people age (15-30) Male	Number of literate people age (15-30) Female	Number of literate people age (31-45) Male	Number of literate people age (31-45) Female	Number of literate people age >45 Male	Number of literate people age >45 Female	Distance from the nearest school (Km)	Parents interested in a school
94	Sayed Khel		18	4	50	8	20	0	12.0	Y
95	Serkay Malang		20	12	15	5	10	3	3.0	Y
96	Sham Ghunday		10	0	2	0	0	0	2.0	Y
97	Shamsherabad		2	0	5	0	1	0	0.5	Y
98	Spina Qala		10	0	15	0	2	0	0.5	Y
99	Sur Sangyan		5	0	3	0	0	0	1.5	Y
100	Talbi Khel		6	0	8	0	2	0	0.0	N
101	Tand Gharak	Ataei Qala	0	0	7	0	0	0	3.0	Y
102	Tand Gharak	Miw Khel	15	0	0	0	0	0	5.0	Y
103	Tand Gharak	Saway	4	0	0	0	0	0	3.0	Y
104	Tand Gharak	Zundi Khel	10	0	0	0	0	0	1.0	Y
105	Tand Ghurak	Fazal Khel	20	0	0	0	0	0	0.0	N
106	Usman Khel	Esa Khel	40	0	25	0	10	0	0.0	Y
107	Usman Khel	Lewanian Khel	8	0	2	0	1	0	2.0	Y
108	Yahya Khel		0	0	0	0	0	0	3.0	Y
109	Yargul Khel		10	0	7	0	5	0	1.0	Y

Appendix T: Mine location and mine victims in Gardez district

S/No	Main village	Sub village	Mine location A	B	C	D	E	F	G	Number of People and animals died and disabled by mine: People died	People disabled	Animals died
1	Awdakay		-	-	-	-	-	√	-	1	0	20
2	Banozai	Banozai	-	-	√	-	-	√	-	4	6	40
3	Banozai	Darabal	-	-	√	-	-	√	-	20	3	60
4	Banozai	Salar Kalay	-	-	√	-	-	√	-	0	0	0
5	Chakan Shekhan		-	-	-	-	-	√	-	10	6	30
6	Chawanay	Rabati	-	√	-	-	-	-	-	0	3	40
7	Dara		-	-	√	-	-	√	-	30	15	100
8	Dawlatzai	Laghar	-	-	-	-	-	√	-	8	0	25
9	Dawlatzai	Ali Jan Khel	-	-	-	-	-	√	√	0	0	0
10	Dawlatzai	Gajan	-	-	√	-	-	√	-	15	0	40
11	Dawlatzai	Ghunday Kalay	-	-	√	-	-	√	-	8	0	20
12	Dinar Khel		-	-	-	-	√	-	-	7	3	120
13	Ibrahim Khel	Bada Khel	-	-	-	-	-	√	-	2	1	30
14	Ibrahim Khel	Tan Khan Khel	-	-	-	-	-	√	√	0	0	0
15	Kwash	Azgana	-	-	-	-	-	√	-	10	0	50
16	Kwash	Bar Kwash	-	-	√	-	-	√	-	10	3	40
17	Kwash	Koz Kwash	-	-	√	-	-	√	-	3	1	60
18	Kwash	Pakhari	-	-	√	-	-	√	-	0	0	0
19	Melan	Habib Qala	-	-	-	-	-	-	√	0	2	0
20	Melan	Melan	-	-	√	-	-	-	-	1	5	0
21	Melan	Shekhan	√	-	√	-	-	√	-	0	0	0
22	Mohd Raza Khel		-	-	-	-	-	√	-	0	0	0
23	Nistikot	Bar Nistikot	-	-	-	-	-	√	-	1	6	50
24	Rabat	Shah-e-Qadam	-	-	-	-	-	-	√	1	2	30
25	Sarkary Qala		-	-	√	-	-	-	-	0	0	15
26	Sepahi Khel		-	√	-	-	-	-	-	0	0	0
27	Shekhan		-	-	√	-	-	-	-	4	0	65

Table 10.2: Type of skills and number of people involved in

Type of skill	Gardez		Sayed Karam	
	No. of people involved	Avg. income/day /person (Afs.)	No. of people involved	Avg. income/day /person (Afs.)
Barber	2	10000	3	50000
Blacksmith	49	50000	26	60000
Carpentry	101	70000	242	80000
Cobbler	-	-	27	40000
Daily working	6	95000	-	-
Driving	644	90000	1127	80000
Embroidery	7	77000	27	60000
Masonry	153	90000	157	90000
Mechanic	61	89000	43	90000
Potter	-	-	6	50000
Tailoring	225	55000	263	50000
Watch repairing	1	0	3	0*
Bakery	-	-	1	0
Shop keeping	-	-	14	55000

* The (0) for the average income indicates that there are skilled people in the area surveyed but they are jobless.

Harvesting, ploughing, threshing, pruning of grape vines, harvesting hashish and daily working are the common seasonal productive activities which the villagers are involved in (for the income see Table 10.3 and Appendix V-V1).

Table 10.3: Seasonal productive activities

Type of activities	Gardez	Sayed Karam
	Avg.Income day/person (Afs.)	Avg.Income day/person (Afs.)
Wheat harvesting	90000	87000
Harvesting Hashish	55000	110000
Daily working	80000	-
Ploughing	75000	-
Pruning grape	70000	-
Threshing	110000	-

11. MARKET AND MARKET PRICES

There were a total of 287 shops scattered in the whole surveyed area. The majority of shops were cited to be general stores, which provided essential daily items. Others were bakeries, blacksmith shops, medical stores, oil shops, vegetable shops and wood shops (see Tables 11.1 and Appendix W-W1).

Appendix T: Mine location and mine victims in Gardez district (Cont..)

S/No	Main village	Sub village	Mine location A	B	C	D	E	F	G	People died	People disabled	Animals died
28	Shekhan		-	-	-	√	√	-	-	2	0	80
29	Teray	Ghafur Khel	-	-	√	-	-	√	-	0	0	10
30	Teray	Momin Khel	-	-	-	-	-	√	-	6	2	30
31	Teray	Spina Qala	-	-	-	-	-	√	-	0	0	0
32	Teray	Woch Khakh	√	-	√	√	-	√	-	0	0	40
33	Utmanay		-	√	-	-	-	-	-	0	0	5
34	Woch Gharak		-	√	-	-	-	-	-	0	0	0

Number of People and animals died and disabled by mine: People died, People disabled, Animals died.

A= In houses
B= In roads
C= In agricultural land
D= In irrigation system
E= In forest near village
F= In grazing land near village
G= In mountains, Near wash

Appendix T1: Mine location and mine victims in Sayed Karam district

S/No	Main village	Sub village	Mine location A	B	C	D	E	F	G	Number of People and animals died and disabled by mine: People died	People disabled	Animals died
1	Andwam		-	√	-	-	-	√	-	4	10	40
2	Bar Sejenak		-	-	√	-	-	-	-	1	1	0
3	Bar Sejenak	Alamgay	-	-	√	-	-	√	-	1	0	5
4	Dam	Ayubi	-	√	-	-	-	-	-	10	0	20
5	Dam	Miral Khel	-	-	-	-	-	√	-	0	0	0
6	Ghonday		-	√	-	-	-	√	-	4	0	1
7	Ghwareza		-	√	√	-	-	√	-	1	1	50
8	Kamran Khel		-	-	-	-	-	√	-	6	0	30
9	Khand Khel	Khand Khel	-	-	√	-	-	-	-	3	5	50
10	Khand Khel	Lalak Kalay	-	-	√	-	-	-	-	0	0	0
11	Kosin	Bar Khano Khel	-	-	-	-	-	-	√	0	0	0
12	Naray Kalay		-	-	-	-	-	-	√	0	0	10
13	Nigram	Ainuddin Qala	-	-	√	-	-	-	-	0	0	0
14	Osman Khel	Mach	-	-	-	-	-	√	-	2	3	20
15	Salam Khel	Sur Sang	-	-	-	√	-	-	-	4	3	35
16	Salemi Nargay		-	-	-	-	-	√	-	1	3	12
17	Usman Khel	Esa Khel	-	-	-	-	-	-	√	0	4	0
18	Usman Khel	Levanian Khel	√	√	-	-	-	√	-	0	2	18
19	Yahya Khel		-	√	-	-	-	√	-	0	0	0

A= In houses
B= In roads
C= In agricultural land
D= In irrigation system
E= In forest near village
F= In grazing land near village
G= In mountains

Appendix U: Number of skilled people, type of skill and number of people involved in Gardez district

S/No	Main village	Sub village	Skill people: Male	Female	Disabled	Type of skill	No. of people involved	Avg. income derived/day/person
1	Ahangaran		55	5	0	Tailoring	5	50000
						Masonry	12	80000
						Carpentry	3	60000
						Driving	10	50000
						Blacksmith	30	60000
2	Aslatbeg		13	0	0	Tailoring	3	60000
						Embroidery	4	70000
						Driving	6	80000
3	Atam Kalay		3	0	0	Barber	2	10000
						Carpentry	1	50000
4	Bala Deh	Afzal Khel	16	8	0	Tailoring	10	40000
						Driving	8	100000
						Masonry	6	120000
5	Bala Deh	Bala Deh	50	20	0	Tailoring	25	35000
						Mechanic	3	65000
						Masonry	12	60000
						Driving	30	100000
6	Bala Deh	Raies Khel	10	10	0	Tailoring	12	80000
						Driving	5	100000
						Masonry	3	120000
7	Bala Deh	Rodak	36	0	0	Driving	15	60000
						Mechanic	10	60000
						Tailoring	5	50000
						Carpentry	4	80000
						Daily working	2	90000

Appendix U: Number of skilled people, type of skill and number of people involved in Gardez district (Cont..)

S/No	Main village	Sub village	Skill people Male	Female	Disabled	Type of skill	No. of people involved	Avg. income derived/day/person
8	Banozai	Banozai	4	0	0	Driving	4	100000
9	Banozai	Darabal	3	2	0	Driving	3	80000
						Tailoring	2	0 *
10	Chakan Shekhan		4	0	0	Driving	4	100000
11	Chawanay	Metran Khel	13	0	0	Driving	5	0
						Masonry	4	0
						Carpentry	3	0
						Tailoring	1	80000
12	Chawanay	Pahlawan Khel	10	0	0	Driving	10	0
13	Chawanay	Rabati	16	0	1	Tailoring	4	0
						Carpentry	1	0
						Driving	10	0
						Embroidery	2	0
14	Dara		3	0	0	Carpentry	3	0
15	Dawlatzai	Habib Khel	12	0	0	Driving	10	0
						Carpentry	2	100000
16	Dawlatzai	Laghar	13	0	0	Driving	10	0
						Carpentry	3	0

* Due to unemployment they don't have any income.

Appendix U: Number of skilled people, type of skill and number of people involved in Gardez district (Cont..)

S/No	Main village	Sub village	Skill people: Male	Female	Disabled	Type of skill	No. of people involved	Avg. income derived/day/person
17	Dawlatzai	Ali Jan Khel	14	0	0	Driving	10	0
						Mechanic	2	70000
						Tailoring	2	60000
18	Dawlatzai	Dray Plari	9	0	0	Driving	4	80000
						Carpentry	3	100000
						Masonry	2	100000
19	Dawlatzai	Fathullah	9	0	1	Carpentry	2	0
						Tailoring	3	60000
						Mechanic	2	70000
						Mechanic	3	80000
20	Dawlatzai	Gajan	7	0	0	Driving	4	80000
						Carpentry	3	0
21	Dawlatzai	Ghunday Kalay	10	1	0	Driving	8	0
						Tailoring	2	70000
						Embroidery	1	85000
22	Dinar Khel		45	10	0	Driving	20	80000
						Tailoring	5	40000
						Carpentry	10	60000
						Masonry	20	100000
23	Golo Khel		2	0	0	Blacksmith	1	0
						Carpentry	1	0

Appendix U: Number of skilled people, type of skill and number of people involved in Gardez district (Cont..)

S/No	Main village	Sub village	Skill people Male	Skill people Female	Skill people Disabled	Type of skill	No. of people involved	Avg. income derived/day/person
24	Golowall	Bar Golowall	10	0	0	Blacksmith	1	50000
						Carpentry	2	90000
						Tailoring	4	80000
						Driving	3	100000
25	Hemat Khel		5	0	0	Driving	4	0
						Blacksmith	1	0
26	Ibrahim Khel	Azami Khel	2	0	0	Tailoring	2	80000
27	Ibrahim Khel	Bada Khel	11	0	0	Driving	10	0
						Masonry	1	0
28	Ibrahim Khel	Ghani Qala	3	0	0	Tailoring	1	0
						Driving	2	0
29	Ibrahim Khel	Mashad Khel	9	0	0	Driving	6	0
						Masonry	3	0
30	Ibrahim Khel	Pakhary	8	0	0	Driving	4	0
						Masonry	4	100000
31	Ibrahim Khel	Pirzad Khel	16	2	0	Tailoring	3	0
						Driving	15	130000
32	Ibrahim Khel	Rahmat Khel	10	0	0	Driving	10	0
33	Ibrahim Khel	Sadiq Khel	22	0	0	Driving	10	0
						Tailoring	8	0

Appendix U: Number of skilled people, type of skill and number of people involved in Gardez district (Cont..)

S/No	Main village	Sub village	Skill people: Male	Skill people: Female	Skill people: Disabled	Type of skill	No. of people involved	Avg. income derived/day/person
34	Ibrahim Khel	Sarwar Khel	22	0	0	Driving	15	0
						Carpentry	4	72000
						Watch repairing	3	0
35	Ibrahim Khel	Tan Khan Khel	13	0	0	Driving	10	0
						Tailoring	3	0
36	Ibrahim Khel	Walyan	12	0	0	Driving	6	0
						Carpentry	1	0
						Masonry	1	0
						Blacksmith	4	0
37	Karmashi		24	2	0	Carpentry	2	20000
						Blacksmith	4	20000
						Driving	18	100000
						Tailoring	2	20000
38	Khataba	Sadiq Khel	4	2	0	Carpentry	1	80000
						Driving	2	100000
						Masonry	1	70000
						Tailoring	2	60000
39	Khataba	Shekhano Qala	11	0	0	Tailoring	5	0
						Carpentry	2	0
						Masonry	4	95000
40	Khwaja Hassan	Khwaja Hassan Ulya	16	6	0	Tailoring	10	50000
						Carpentry	2	100000
						Driving	10	100000

Appendix U: Number of skilled people, type of skill and number of people involved in Gardez district (Cont..)

S/No	Main village	Sub village	Skill people Male	Female	Disabled	Type of skill	No. of people involved	Avg. income derived/day/person
41	Khwaja Hassan	Khwaja Hassan Sufla	18	10	0	Tailoring	13	60000
						Carpentry	1	80000
						Driving	10	100000
						Mechanic	4	100000
42	Kochi Khel		46	6	0	Tailoring	8	100000
						Driving	25	80000
						Mechanic	10	50000
						Masonry	8	110000
						Carpentry	1	40000
43	Kwash	Azgana	10	0	0	Driving	10	0
44	Kwash	Bar Kwash	6	0	0	Driving	6	100000
45	Kwash	Koz Kwash	6	0	0	Driving	6	80000
46	Mahmud Qala		6	0	0	Tailoring	3	0
						Blacksmith	2	0
						Carpentry	1	0
47	Melan	Habib Qala	4	0	0	Driving	4	100000
48	Mia Noor Khel		10	0	0	Masonry	3	40000
						Driving	7	100000
49	Mianur Qala		12	0	0	Driving	12	50000
50	Mumray		60	4	0	Tailoring	7	60000
						Masonry	30	50000
						Carpentry	5	60000
						Driving	20	80000
						Mechanic	2	150000

Appendix U: Number of skilled people, type of skill and number of people involved in Gardez district (Cont..)

S/No	Main village	Sub village	Skill people Male	Female	Disabled	Type of skill	No. of people involved	Avg. income derived/day/person
51	Niazi Qala		9	0	0	Tailoring	2	50000
						Carpentry	2	70000
						Driving	5	0
52	Pushta		10	3	0	Tailoring	6	30000
						Driving	7	50000
53	Qala Halim		18	0	0	Driving	18	50000
54	Qala-e-Arjal		23	0	1	Tailoring	4	50000
						Carpentry	4	70000
						Mechanic	6	100000
						Driving	10	100000
55	Qala-e-Dahbashi		5	0	0	Driving	5	90000
56	Qala-e-Sarsang		6	4	0	Carpentry	2	30000
						Driving	4	100000
						Tailoring	4	50000
57	Qala-e-Sayedan		27	0	0	Carpentry	1	100000
						Masonry	10	150000
						Driving	10	130000
						Mechanic	6	140000
58	Qala-e-Zargar		11	2	0	Tailoring	3	0
						Driving	8	100000
						Mechanic	1	80000
						Masonry	1	0

Appendix U: Number of skilled people, type of skill and number of people involved in Gardez district (Cont..)

S/No	Main village	Sub village	Skill people Male	Female	Disabled	Type of skill	No. of people involved	Avg. income derived/day/person
59	Rabat	Rabat	35	2	0	Mechanic	3	100000
						Tailoring	4	60000
						Driving	27	150000
						Carpentry	3	70000
60	Rabat	Shah-e-Qadam	9	2	0	Tailoring	5	30000
						Driving	6	60000
61	Saidan	Mashayan	5	0	0	Daily working	4	100000
						Mechanic	1	80000
62	Saparai		27	0	0	Tailoring	5	0
						Driving	20	0
						Carpentry	2	0
63	Sarkary Qala		8	0	0	Driving	6	0
						Masonry	1	0
						Carpentry	1	0
64	Shahr-e-Naw		33	10	0	Tailoring	15	40000
						Carpentry	2	50000
						Blacksmith	2	50000
						Mechanic	4	100000
						Driving	20	100000
65	Shekhan		7	0	0	Driving	7	0
66	Shekhan		55	0	0	Carpentry	10	60000
						Masonry	15	70000
						Driving	30	0

Table 11.1: Type of shops

Type of shops	Gardez No. of villages replied	Sayed Karam No. of villages replied
Bakery	1	1
Black smith	-	1
Carpentry	2	-
Mechanic	1	1
General store	21	35
Restaurant	1	-
Medical store	2	11
Oil shop	-	2
Vegetable shop	-	1
Tailoring shop	1	1
Animal medicose	-	2
Flour mill	-	1
wood shop	-	2
Work shop	-	1

Only four markets were found in the surveyed area where almost all daily items were available (For the products sold in this market see Table 11.2 Appendix X-X1).

Table 11.2: Food items and their prices

Food item	Gardez Avg. price (Afs.)	Sayed Karam Avg. price (Afs.)	Unit
Sugar	210000	177000	Seer
Black tea	240000	188000	Kg
Green tea	125000	124000	Kg
Salt	14400	14500	Seer
Ghee	50000	50500	Kg
Flour	119280	122500	Seer
Rice	210000	186500	Seer
Bean	231000	207000	Seer
Pea	154000	350000	Seer
Mung bean	148000	137500	Seer
Lentil	150000	155000	Seer
Onion	42000	40000	Seer
Potato	84000	75000	Seer

12. UN AGENCIES/NGOs ACTIVITIES

A total of 15 governmental and non-governmental organizations in Gardez and 16 in Sayed Karam were undertaking projects in the surveyed areas in different fields (for their names and activities see Table and Appendix Y-Y1).

1. INTRODUCTION

1.1 Background

Gardez is located in the western part of Paktia province and comprises an area of 653 sq km. To the southwest is Zormat and in the northwest and north, Charkh and Pul-I-Alam districts of Logar touch its border. In the east Sayed Karam and in the south Shawak surround the district. The main paved road from Kabul to Khost passes through Gardez and Jadran. Gardez has 110 villages of which only one village is abandoned. Its population is estimated at 62,414.

Sayed Karam is located in north Paktia with an area estimated at 938 sq km. To the west is Gardez, in the south are Shawak and Musa Khel. To the north is Logar province and in the east is Lajmangal and Hasan Khel. Sayed Karam has 112 villages of which three villages are abandoned. Its population is estimated at 73,392.

1.2 Objectives

The Baseline survey, carried out at the village level, was originally conceived with two main objectives. The first objective was to group all the villages by some measure of the extent of deprivation; the second objective, to provide a set of data that can be used as a benchmark. A by product of this survey is a better understanding of the geographical extent of settlement vis-à-vis social, economic and physical parameters considered important by the inhabitants.

In accordance with the survey, the emphasis of the objectives was placed on the following:

- To find out the size of the villages;
- To provide data on the availability of basic services such as health, education, water, etc;
- To identify the accessibility of roads, markets, agriculture inputs, etc;
- To ascertain the income generation;
- To determine the amount of illicit crop production and its use;
- To find out activities of UN agencies and NGOs;

1.3 Survey Method

A survey questionnaire covering questions related to significant aspects of the villages was prepared. All questions were discussed with the supervisors and enumerators during training.

Three experienced survey teams (6 enumerators, 3 supervisors, and one field coordinator) underwent training and conducted the field survey. Each survey team, consisting of one supervisor, two enumerators and three local guide, conducted the survey at the village level. The supervisors were responsible for overseeing the fieldwork of the two enumerators and checking the questionnaires on the day of their

Appendix U: Number of skilled people, type of skill and number of people involved in Gardez district (Cont..)

S/No	Main village	Sub village	Skill people Male	Female	Disabled	Type of skill	No. of people involved	Avg. income derived/day/person
67	Shekhan		10	5	0	Driving	7	100000
						Tailoring	5	50000
						Carpentry	1	0
						Masonry	2	0
68	Teray	Charmakhkay	10	0	0	Driving	10	0
69	Teray	Fazal Qala	1	0	0	Driving	1	140000
70	Teray	Ghafur Khel	1	0	0	Carpentry	1	50000
71	Teray	Kuz Lewan	1	0	0	Driving	1	0
72	Teray	Lewanian	1	0	0	Carpentry	1	40000
73	Teray	Lewan	15	0	0	Driving	10	0
						Tailoring	5	0
74	Teray	Momin Khel	10	0	0	Driving	10	0
75	Teray	Spina Qala	5	0	0	Masonry	5	70000
76	Teray	Tandan	5	0	0	Masonry	5	110000
77	Teray	Tarkanan	13	3	0	Carpentry	4	0
						Driving	6	0
						Tailoring	6	0

Appendix U: Number of skilled people, type of skill and number of people involved in Gardez district (Cont..)

S/No	Main village	Sub village	Skill people			Type of skill	No. of people involved	Avg. income derived/day/person
			Male	Female	Disabled			
78	Woch Gharak		10	0	0	Carpentry Blacksmith	6 4	0 0
79	Zawa		1	0	0	Tailoring	1	0

Appendix U1: Number of skilled people, type of skill and number of people involved in Sayed Karam district

S/No	Main village	Sub village	Skill people			Type of skill	No. of people involved	Avg. income derived/day/person
			Male	Female	Disabled			
1	Ahmad Shah Khel		3	2	0	Tailoring	2	65000
						Driving	3	150000
2	Andwam		18	0	0	Driving	10	100000
						Carpentry	4	90000
						Tailoring	2	60000
						Embroidery	2	70000
3	Arab Khel		7	0	0	Carpentry	1	50000
						Masonry	1	80000
						Tailoring	2	50000
						Driving	3	100000
4	Ashpan		21	2	0	Carpentry	6	100000
						Driving	10	0 *
						Mechanic	5	150000
						Tailoring	2	0
5	Bar Sejenak		28	1	0	Driving	15	90000
						Carpentry	6	0
						Blacksmith	3	70000
						Tailoring	3	80000
						Cobbler	2	20000
6	Bar Sejenak	Alamgay	4	0	0	Driving	3	0
						Bakery	1	0

* Due to unemployment they don't have any income.

Appendix U1: Number of skilled people, type of skill and number of people involved in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Skill people Male	Female	Disabled	Type of skill	No. of people involved	Avg. income derived/day/person
7	Batyan Khel		2	0	0	Mechanic	1	100000
						Driving	1	0
8	Cher Rakay		13	1	0	Driving	8	0
						Embroidery	3	0
						Tailoring	1	0
						Carpentry	2	0
9	Chino	Chino	32	1	0	Driving	30	60000
						Tailoring	2	50000
						Carpentry	1	100000
10	Cheno	Durrani	25	2	0	Tailoring	5	30000
						Carpentry	2	60000
11	Chinosar	Chino Sar	7	0	0	Blacksmith	3	0
						Driving	20	80000
						Carpentry	4	0
12	Dam	Ayubi	32	0	0	Driving	30	0
						Tailoring	2	80000
13	Dam	Khogory	25	0	0	Driving	15	100000
						Carpentry	4	100000
						Masonry	6	80000
14	Dawlat Khel		4	0	0	Tailoring	1	50000
						Driving	3	100000
15	Gharak	Talkhan	10	0	0	Driving	7	60000
						Mechanic	3	50000

Appendix U1: Number of skilled people, type of skill and number of people involved in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Skill people			Type of skill	No. of people involved	Avg. income derived/day/person
			Male	Female	Disabled			
16	Ghonday		23	0	0	Tailoring	8	0
						Mechanic	5	0
						Masonry	10	0
17	Ghwareza		1	0	0	Driving	1	100000
18	Gud Mangal Qala		20	0	0	Driving	18	50000
						Masonry	2	100000
19	Isa Khel		100	5	0	Cobbler	15	50000
						Carpentry	20	100000
						Driving	40	80000
						Tailoring	20	60000
						Mechanic	10	100000
20	Jangi Khel		4	0	0	Masonry	1	100000
						Driving	3	80000
21	Kalgar	Mohd Amin Khel	6	0	0	Carpentry	4	0
						Masonry	2	0
22	Kamran Khel		15	4	0	Tailoring	7	40000
						Carpentry	2	70000
						Driving	10	80000
23	Karezgay		16	0	0	Driving	10	0
						Tailoring	2	0
						Carpentry	2	80000
						Pottery	1	40000
						Embroidery	1	0

Appendix U1: Number of skilled people, type of skill and number of people involved in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Skill people Male	Female	Disabled	Type of skill	No. of people involved	Avg. income derived/day/person
24	Kerkin	Gorandi Shekhan	11	0	0	Driving	10	0
						Carpentry	1	80000
25	Kerkin	Jan Ghunday	26	0	0	Driving	20	0
						Carpentry	3	0
						Masonry	3	100000
26	Kerkin	Selarai	26	0	0	Driving	20	0
						Carpentry	2	90000
						Masonry	4	100000
27	Kerkin	Sru Kholeh	11	0	0	Driving	10	0
						Carpentry	1	0
28	Kerkin	Sur Petaw	5	0	0	Driving	3	0
						Carpentry	2	0
29	Kerkin	Wocha Lagada	5	2	0	Driving	5	0
						Embroidery	2	50000
30	Kerkin Kholeh		38	0	0	Driving	25	90000
						Carpentry	13	100000
31	Khan Khel		15	1	2	Masonry	3	0
						Carpentry	1	0
						Driving	10	0
						Tailoring	4	0

Appendix U1: Number of skilled people, type of skill and number of people involved in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Skill people			Type of skill	No. of people involved	Avg. income derived/day/person
			Male	Female	Disabled			
32	Khand Khel	Khand Khel	108	3	2	Driving	100	0
						Blacksmith	1	0
						Carpentry	5	0
						Cobbler	2	0
						Embroidery	5	0
33	Khand Khel	Lalak Kalay	14	0	0	Driving	10	0
						Carpentry	3	0
						Watch repairing	1	0
34	Khawajar Khel		29	7	0	Driving	20	50000
						Tailoring	12	40000
						Carpentry	3	100000
						Masonry	1	100000
35	Kosin	Bar Khano Khel	24	0	0	Tailoring	3	30000
						Driving	15	100000
						Carpentry	4	50000
						Mechanic	2	70000
36	Kosin	Gorgori Qala	12	0	0	Carpentry	2	0
						Driving	10	0
37	Kosin	Kalgar	85	0	0	Carpentry	32	0
						Driving	50	100000
						Blacksmith	2	70000
						Mechanic	1	140000
38	Kosin	Khoshal Khel	16	0	0	Driving	13	0
						Tailoring	3	0

Appendix U1: Number of skilled people, type of skill and number of people involved in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Skill people Male	Female	Disabled	Type of skill	No. of people involved	Avg. income derived/day/person
39	Kosin	Kuz Khano Khel	28	0	0	Tailoring	4	0
						Carpentry	2	0
						Blacksmith	2	0
						Driving	20	0
40	Kosin	Masak Karez	7	0	0	Tailoring	1	0
						Driving	3	0
						Embroidery	1	0
						Cobbler	2	0
41	Kosin	Shayasta Kalay	5	0	0	Driving	5	0
42	Kosin	Shekhan	30	1	1	Driving	30	0
						Tailoring	2	0
43	Kotkay		18	4	1	Mechanic	4	100000
						Tailoring	6	50000
						Carpentry	2	80000
						Driving	11	100000
44	Koz Feroz Khel		19	0	0	Tailoring	5	40000
						Carpentry	4	50000
						Driving	9	100000
						Mechanic	1	100000
45	Kunder Khel		20	3	0	Driving	20	0
						Tailoring	3	0

Appendix U1: Number of skilled people, type of skill and number of people involved in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Skill people			Type of skill	No. of people involved	Avg. income derived/day/person
			Male	Female	Disabled			
46	Kuz Sejenak	Kuz Sejenak	13	3	2	Carpentry	6	0
						Tailoring	5	50000
						Mechanic	4	70000
						Blacksmith	3	40000
47	Kuz Sejenak	Tarai	5	0	0	Driving	5	90000
48	Machal Ghu	Babakrey	3	0	0	Driving	3	0
49	Machal Ghu	Godian	14	0	0	Driving	10	0
						Blacksmith	2	0
						Pottery	2	0
50	Machal Ghu	Lewan	4	0	0	Driving	4	0
51	Machal Ghu	Mado Khel	8	0	0	Blacksmith	1	0
						Carpentry	1	0
						Driving	6	0
52	Machal Ghu	Mamozai	10	0	0	Driving	6	0
						Carpentry	2	0
						Tailoring	2	0
53	Machal Ghu	Mulla Khel	32	10	0	Carpentry	5	70000
						Tailoring	12	60000
						Driving	10	0
						Masonry	15	50000
54	Machal Ghu	Nagram	11	0	0	Embroidery	3	0
						Driving	8	0

Appendix U1: Number of skilled people, type of skill and number of people involved in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Skill people Male	Skill people Female	Skill people Disabled	Type of skill	No. of people involved	Avg. income derived/day/person
55	Machal Ghu	Nandar Khel	3	0	0	Masonry	1	0
						Driving	2	0
56	Machal Ghu	Nora Khel	7	0	0	Driving	5	0
						Pottery	1	0
						Carpentry	1	0
57	Machal Ghu	Salim Khan Khel	3	0	0	Carpentry	3	0
58	Machal Ghu	Sayed Khel	7	0	0	Driving	5	0
						Carpentry	1	90000
						Tailoring	1	70000
59	Machal Ghu	Spina Qala	10	0	0	Driving	10	0
60	Machal Ghu	Taro Khel	13	0	0	Barber	1	60000
						Tailoring	8	0
						Carpentry	4	0
61	Machal Ghu	Wach Khakh Qala	5	0	0	Driving	3	0
						Carpentry	2	0
62	Mawroz Khel		28	4	0	Tailoring	6	50000
						Carpentry	4	80000
						Shop keeping	12	60000
						Driving	8	70000
						Mechanic	2	60000

13. APPENDICES

Appendix U1: Number of skilled people, type of skill and number of people involved in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Skill people			Type of skill	No. of people involved	Avg. income derived/day/person
			Male	Female	Disabled			
63	Merzaka	Azad Khel	21	0	0	Tailoring	3	0
						Carpentry	5	0
						Masonry	10	0
						Driving	3	0
64	Merzaka	Batay	54	0	0	Driving	40	0
						Carpentry	4	0
						Masonry	4	0
						Tailoring	6	0
65	Merzaka	Chanjay Khwar	21	0	0	Driving	5	0
						Tailoring	10	65000
						Carpentry	6	50000
66	Merzaka	Chungay	7	1	0	Driving	6	0
						Carpentry	1	100000
						Tailoring	1	0
67	Merzaka	Garamay	6	0	0	Driving	6	0
68	Merzaka	Ghonzay	10	0	0	Carpentry	3	0
						Masonry	2	0
						Driving	5	0
69	Merzaka	Hajian	20	0	0	Driving	20	0
70	Merzaka	Kajeray	90	0	0	Driving	28	0
						Masonry	30	0
						Tailoring	20	0
						Embroidery	10	0
						Pottery	2	50000

Appendix U1: Number of skilled people, type of skill and number of people involved in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Skill people			Type of skill	No. of people involved	Avg. income derived/day/person
			Male	Female	Disabled			
71	Merzaka	Khalilan	10	2	0	Driving	5	0
						Tailoring	2	0
						Blacksmith	1	60000
						Carpentry	4	70000
72	Merzaka	Serkay Tanga	10	1	0	Masonry	7	0
						Cobbler	1	0
						Tailoring	3	0
73	Mia Khel		2	0	0	Driving	2	80000
74	Mir Zaka	Nora China	4	0	0	Driving	4	0
75	Nigram	Ainuddin Qala	11	0	0	Driving	7	80000
						Carpentry	4	90000
76	Osman Khel	Mach	11	0	0	Driving	6	0
						Carpentry	2	0
						Masonry	3	100000
77	Osman Khel	Raza Khel	15	0	0	Blacksmith	8	80000
						Carpentry	2	100000
						Driving	3	60000
						Mechanic	2	90000
78	Qader Khel		17	0	0	Driving	12	60000
						Tailoring	3	60000
						Carpentry	2	50000

Appendix U1: Number of skilled people, type of skill and number of people involved in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Skill people			Type of skill	No. of people involved	Avg. income derived/day/person
			Male	Female	Disabled			
79	Salam Khel	Afzal Khel	19	0	0	Tailoring	5	40000
						Carpentry	4	60000
						Masonry	5	60000
						Driving	5	50000
80	Salam Khel	Bike Khel	10	3	0	Driving	8	0
						Tailoring	3	0
						Masonry	1	0
						Carpentry	1	0
81	Salam Khel	Salu Khel	24	7	0	Tailoring	15	50000
						Driving	12	80000
						Masonry	3	60000
						Carpentry	1	70000
82	Salam Khel	Sra Qala	22	0	0	Masonry	7	100000
						Driving	10	50000
						Carpentry	2	80000
						Tailoring	3	40000
83	Salam Khel	Sur Sang	20	3	0	Driving	15	50000
						Tailoring	8	40000
84	Salemi Nargay		9	0	0	Driving	7	0
						Carpentry	2	0
85	Sarwar Qala		16	0	0	Driving	15	80000
						Mechanic	1	100000

Appendix U1: Number of skilled people, type of skill and number of people involved in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Skill people			Type of skill	No. of people involved	Avg. income derived/day/person
			Male	Female	Disabled			
86	Sayed Khel		55	6	0	Driving	16	50000
						Carpentry	18	80000
						Masonry	15	100000
						Tailoring	12	30000
87	Serkay Malang		13	3	0	Masonry	3	0
						Carpentry	4	0
						Tailoring	9	0
88	Sham Ghunday		10	0	0	Driving	10	0
89	Shamsherabad		3	3	0	Mechanic	1	80000
						Tailoring	5	30000
90	Spina Qala		24	0	0	Driving	10	60000
						Masonry	8	100000
						Tailoring	6	40000
91	Sur Sangyan		2	0	0	Carpentry	2	0
92	Talbi Khel		5	0	0	Driving	5	50000
93	Tand Gharak	Ataei Qala	1	0	0	Driving	1	50000
94	Tand Gharak	Miw Khel	1	0	0	Barber	1	40000
95	Tand Gharak	Saway	13	0	0	Driving	12	0
						Barber	1	0
96	Tand Gharak	Zundi Khel	31	0	0	Driving	30	0
						Carpentry	1	0

Appendix U1: Number of skilled people, type of skill and number of people involved in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Skill people Male	Female	Disabled	Type of skill	No. of people involved	Avg. income derived/day/person
97	Tand Ghurak	Fazal Khel	36	0	0	Driving	30	0
						Carpentry	6	0
98	Usman Khel	Esa Khel	20	4	0	Tailoring	8	40000
						Driving	10	100000
						Mechanic	1	100000
						Cobbler	5	0
99	Usman Khel	Lewanian Khel	35	0	0	Driving	25	100000
						Masonry	10	150000
100	Yahya Khel		3	0	0	Driving	3	0
101	Yargul Khel		13	2	0	Shop keeping	2	50000
						Carpentry	1	80000
						Driving	7	0
						Tailoring	5	60000

Appendix V: Seasonal productive activities in Gardez district

S/No	Main village	Sub village	Seasonal productive activities: Type	Time involved	income/day
1	Aslatbeg		Wheat harvesting	JUL	90000
2	Atam Kalay		Wheat harvesting	JUL	100000
3	Awdakay		Harvesting Hashish	NOV	70000
4	Banozai	Banozai	Wheat harvesting	JUL	90000
5	Banozai	Darabal	Wheat harvesting	JUL	100000
6	Banozai	Salar Kalay	Wheat harvesting	JUL	90000
7	Chakan Shekhan		Wheat harvesting and ploughing	JUL OCT	90000 100000
8	Dara		Wheat harvesting	AUG	90000
9	Dawlatzai	Habib Khel	Wheat harvesting	AUG	90000
10	Dawlatzai	Laghar	Wheat harvesting	JUL	90000
11	Dawlatzai	Dray Plari	Wheat harvesting	JUL	100000
12	Dawlatzai	Fathullah	Wheat harvesting	AUG	100000
13	Dawlatzai	Gadai Khel	Wheat harvesting	JUL	100000
14	Dawlatzai	Gajan	Wheat harvesting	AUG	100000
15	Dinar Khel		Prumming of grape	APR	70000
16	Golo Khel		Wheat harvesting and thresher	JUL JUL	110000 110000
17	Golowall	Kuz Golowall	Wheat harvesting	JUL	100000
18	Ibrahim Khel	Bada Khel	Wheat harvesting	JUL	100000
19	Ibrahim Khel	Ghani Qala	Wheat harvesting	JUL	90000
20	Ibrahim Khel	Karama Khel	Wheat harvesting	JUL	90000
21	Ibrahim Khel	Rahmat Khel	Wheat harvesting	JUL	100000
22	Ibrahim Khel	Sadiq Khel	Wheat harvesting	JUL	90000
23	Ibrahim Khel	Sarwar Khel	Wheat harvesting	AUG	150000
24	Ibrahim Khel	Tan Khan Khel	Wheat harvesting	AUG	80000
25	Khwaja Hassan	Khwaja Hassan Sufla	Wheat harvesting	AUG	80000
26	Mahmud Qala		Wheat harvesting	JUL	100000
27	Nisti Kot	Kuz Nistikot	Wheat harvesting	JUL	90000
28	Nistikot	Bar Nistikot	Wheat harvesting	JUL	85000
29	Qala-e-Dahbashi		Wheat harvesting	JUL	50000
30	Qala-e-Sayedan		Wheat harvesting	JUL	100000

Appendix V: Seasonal productive activities in Gardez district

S/No	Main village	Sub village	Seasonal productive activities: Type	Time involved	income/day
31	Qala-e-Zargar		Wheat harvesting	JUL	100000
32	Rabat	Rabat	Wheat harvesting	AUG	80000
33	Saidan	Mashayan	Wheat harvesting	JUL	80000
34	Shekhan		Wheat harvesting	AUG	0
35	Teray	Azad Khan Khel	Wheat harvesting	JUL	100000
36	Teray	Bagho Kalay	Wheat harvesting	JUL	60000
37	Teray	Charmakhky	Wheat harvesting	JUL	90000
38	Teray	Kuz Lewan	Wheat harvesting	JUL	80000
39	Teray	Lewanian	Wheat harvesting	JUL	80000
40	Teray	Lewan	Wheat harvesting	JUL	80000
41	Teray	Momin Khel	Wheat harvesting	JUL	70000
42	Teray	Nawrakay	Wheat harvesting	JUL	50000
43	Teray	Samad Khel	Wheat harvesting	JUL	90000
44	Teray	Spina Qala	Wheat harvesting	JUL	80000
			and ploughing	OCT	50000
45	Teray	Sra Qala	Wheat harvesting	JUL	80000
46	Teray	Tandan	Wheat harvesting	JUL	100000
47	Teray	Tarkanan	Wheat harvesting	JUL	80000
48	Teray	Woch Khash	Harvesting Hashish	NOV	40000
			Wheat harvesting	JUL	40000
49	Woch Gharak		Wheat harvesting	JUL	100000

Appendix V1: Seasonal productive activities in Sayed Karam district

S/No	Main village	Sub village	Seasonal productive activities: Type	Time involved	income/day
1	Chinosar		Harvesting Hashish	NOV	110000
2	Kosin	Kuz Khano Khel	Wheat harvesting	AUG	90000
3	Kotkay		Wheat harvesting	AUG	80000
4	Koz Feroz Khel		Wheat harvesting	AUG	70000
5	Kunder Khel		Wheat harvesting	AUG	80000
6	Machal Ghu	Akbar Khel	Wheat harvesting	AUG	110000
7	Machal Ghu	Bazu Khel	Wheat harvesting	AUG	100000
8	Machal Ghu	Godian	Wheat harvesting	AUG	40000
9	Machal Ghu	Hassan Qala	Wheat harvesting	AUG	100000
10	Machal Ghu	Mado Khel	Wheat harvesting	AUG	110000
11	Machal Ghu	Nagram	Wheat harvesting	AUG	100000
12	Machal Ghu	Nora Khel	Wheat harvesting	AUG	100000
13	Machal Ghu	Pala Khel	Wheat harvesting	AUG	100000
14	Machal Ghu	Spina Qala	Wheat harvesting	AUG	90000
15	Mawroz Khel		Wheat harvesting	AUG	50000
16	Salam Khel	Bike Khel	Wheat harvesting	AUG	80000
17	Salam Khel	Sra Qala	Wheat harvesting	AUG	70000
18	Tand Gharak	Zundi Khel	Wheat harvesting	AUG	110000
19	Tand Ghurak	Fazal Khel	Wheat harvesting	AUG	100000
20	Usman Khel	Esa Khel	Wheat harvesting	AUG	100000
21	Yahya Khel		Wheat harvesting	AUG	50000

Appendix W: Type of shops in Gardez district

S/No	Main village	Sub village	Number of shops	General store	Medical store	Black smith	Vegetable shop	Carp entry	Tailor ing	Mech anic	Bakery	Hotel
1	Awdakay		1	√	-	-	-	-	-	-	-	-
2	Bala Deh	Bala Deh	5	√	-	-	-	-	-	-	-	-
3	Bala Deh	Raies Khel	3	√	√	-	-	-	-	-	-	-
4	Chawanay	Metran Khel	2	√	-	-	-	-	-	-	-	-
5	Chawanay	Pahlawan Khel	2	√	-	-	-	-	-	-	-	-
6	Dara		2	√	-	-	-	-	-	-	-	-
7	Ibrahim Khel	Ghani Qala	1	√	-	-	-	-	-	-	-	-
8	Ibrahim Khel	Karama Khel	1	-	√	-	-	-	-	-	-	-
9	Ibrahim Khel	Pirzad Khel	1	√	-	-	-	-	-	-	-	-
10	Khataba	Shekano Qala	2	√	-	-	-	-	-	-	-	-
11	Khwaja Hassan	Khwaja Hassan Ulya	6	√	-	-	-	√	-	-	-	-
12	Khwaja Hassan	Khwaja Hassan Sufla	1	√	-	-	-	-	-	-	-	-
13	Melan	Habib Qala	1	√	-	-	-	-	-	-	-	-
14	Nistikot	Bar Nistikot	2	√	-	-	-	-	-	-	-	-
15	Qala-e-Sarsang		2	√	-	-	-	-	-	-	-	-
16	Rabat	Rabat	3	√	-	-	-	-	-	-	-	-
17	Saparai		1	√	-	-	-	-	-	-	-	-
18	Shahr-e-Naw		25	√	-	-	-	-	-	-	-	-
19	Shekhan		10	√	-	-	-	√	√	√	√	√
20	Teray	Momin Khel	2	√	-	-	-	-	-	-	-	-
21	Zawa		1	√	-	-	-	-	-	-	-	-

Appendix W1: Type of shops in Sayed Karam district

S/No	Main village	Sub village	Number of shops	General store	Medical store	Animal medi cose	Black smith	Oile shop	Vege table shop	Tailor ing	Mech anic	Bak ery	Wood shop	Work shop	Mill	Hotel
1	Andwam		2	√	√	-	-	-	-	-	-	-	-	-	-	√
2	Ashpan		1	√	-	-	-	-	-	-	-	-	-	-	-	-
3	Bar Sejenak		5	√	-	-	-	-	-	-	-	-	-	-	-	-
4	Cher Rakay		1	√	-	-	-	-	-	-	-	-	-	-	-	-
5	Chino	Chino Sar	3	√	-	-	-	-	-	-	-	-	-	-	-	-
6	Dam	Ayubi	6	√	√	-	-	-	-	-	-	-	-	-	-	-
7	Dam	Khogory	3	√	-	-	-	-	-	-	-	-	-	-	-	-
8	Dam	Miral Khel	2	√	√	-	-	-	-	-	-	-	-	-	-	-
9	Dawlat Khel		1	√	-	-	-	-	-	-	-	-	-	-	-	-
10	Gud Mangal Qala		1	√	-	-	-	-	-	-	-	-	-	-	-	-
11	Isa Khel		3	√	-	-	-	-	-	-	-	-	-	-	-	-
12	Kalgar	Mohd Amin Khel	1	√	-	-	-	-	-	-	-	-	-	-	-	-
13	Karezgay		1	√	-	-	-	-	-	-	-	-	-	-	-	-
14	Kerkin	Wocha Lagada	5	√	√	-	-	-	-	-	-	-	-	-	-	-
15	Kerkin Kholeh		6	√	√	-	-	-	-	-	-	-	-	-	-	-
16	Khan Khel		1	√	-	-	-	-	-	-	-	-	-	-	-	-
17	Kosin	Kalgar	6	√	√	-	-	-	-	-	-	-	-	-	-	-
18	Kosin	Khoshal Khel	1	√	√	-	-	-	-	-	-	-	-	-	-	-
19	Kotkay		90	√	√	√	-	√	-	-	-	√	-	√	√	√
20	Kuz Sejenak	Kuz Sejenak	4	√	√	-	-	-	-	-	-	-	-	-	-	-
21	Machal Ghu	Akbar Khel	1	√	-	-	-	-	-	-	-	-	-	-	-	-
22	Machal Ghu	Gandir Khel	1	√	-	-	-	-	-	-	-	-	-	-	-	-
23	Machal Ghu	Godian	1	√	-	-	-	-	-	-	-	-	-	-	-	-
24	Machal Ghu	Mado Khel	1	√	-	-	-	-	-	-	-	-	-	-	-	-
25	Machal Ghu	Mulla Khel	1	√	-	-	-	-	-	-	-	-	-	-	-	-
26	Machal Ghu	Nora Khel	2	√	-	-	-	-	-	-	-	-	-	-	-	-
27	Machal Ghu	Salim Khan Khel	1	√	-	-	-	-	-	-	-	-	-	-	-	-

Appendix A
Survey Questionnaire

Appendix W1: Type of shops in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Number of shops	General store	Medical store	Animal medicose	Black smith	Oile shop	Vegetable shop	Tailoring	Mechanic	Bakery	Wood shop	Work shop	Mill	Hotel
28	Machal Ghu	Taro Khel	3	√	√	-	-	-	-	-	-	-	-	-	-	-
29	Merzaka	Batay	6	√	-	-	-	-	-	√	-	-	√	-	-	-
30	Merzaka	Kajeray	3	√	-	-	-	-	-	-	-	-	-	-	-	-
31	Merzaka	Khalilan	5	√	√	-	-	-	-	-	-	-	-	-	-	-
32	Salam Khel	Sur Sang	1	√	-	-	-	-	-	-	-	-	-	-	-	-
33	Tand Gharak	Zundi Khel	1	√	-	-	-	-	-	-	-	-	-	-	-	-
34	Usman Khel	Esa Khel	3	√	√	-	-	-	-	-	-	-	-	-	-	-
35	Yargul Khel		30	√	√	√	√	√	√	-	√	-	√	-	-	-

Appendix X: Food items, construaction material and fuel prices in Gardez city

Food item

Name	Unit	Price (Afs)
Sugar	Seer	210000
Black tea	Kg	240000
Green tea	Kg	125000
Salt	Seer	14400
Ghee	Kg	50000
Flour	Seer	119280
Rice	Seer	210000
Bean	Seer	231000
Pea	Seer	154000
Mung bean	Seer	148000
Lentil	Seer	150000
Onion	Seer	42000
Potato	Seer	84000
Okra	Kg	20000
Leek	Kg	5000
Tomato	Kg	12000
Sweet	Kg	34000
Eggs	Per unit	3000
Bread	200 g	4000

Construction material and fuel

Item name	Specification	Price (Afs)
Wood beam	5m	284000
Dastak	5-6m	113600
Concrete beam	2mx20cm	280000
Slabs	1x1.8m	624800
Wooden door	1.8x0.9m	1136000
Steel door	1x1.5m	454400
Wooden window	1x1.5m	1000000
Cement	50Kg	350000
Curve spit	14mm	22700
Curve spit	12mm	20000
Fire wood	Archa	10000/seer
Diesel	Irani	15000/litter
Patrol	Irani	22700/litter
Kerosene	Pakistani	20000/litter
Ring	0.6x1cm	450000/unit

Appendix X1: Food items, construaction material and fuel prices in (Kotkay) of Sayed Karam district

Food item			Construction material, fuel and others		
Name	Unit	Price(Afs)	Item name	Specification	Price(Afs)
Sugar	Seer	179000	Wood beam	5m	300000
Black tea	Kg	156000	Dastak	6m	80000
Green tea	Kg	128000	Wooden door	1.9x1cm	1800000
Salt	Seer	15000	Steel door	3x3cm	4500000
Ghee	Kg	50000	Wooden window	1.5x2	1500000
Flour	Seer	130000	Steel window	1.5X2	1200000
Rice	Seer	233000	Fire wood	Archa	14000/seer
Bean	Seer	218000	Diesel	Irani	14000/litter
Pea	Seer	350000	Petrol	Irani	22000/litter
Mung bean	Seer	140000	Kerosene	Pakistani	20000/litter
Lentil	Seer	170000	Mobile oil	Super Garmany	360000/5 litter
Onion	Seer	40000	Matches	Pakistani	500/unit
Potato	Seer	80000	Soap	Irani	6000/unit
Tomato	Kg	16000			
Sweet	Kg	11000			
Gora	Seer	180000			
Meat	Kg	70000			
Wheat	Kg	124000			

Appendix X1: Food items, construaction material and fuel prices in (Yargul Khel) of Sayed Karam district

Food item

Name	Unit	Price(Afs)
Sugar	Seer	175000
Black tea	Kg	220000
Green tea	Kg	120000
Salt	Seer	14000
Ghee	Kg	51000
Flour	Seer	115000
Rice	Seer	140000
Bean	Seer	196000
Pea	Seer	350000
Mung bean	Seer	135000
Lentil	Seer	140000
Onion	Seer	40000
Potato	Seer	70000
Wheat	Seer	100000
Sweet	Kg	29000

Construction material, fuel and others

Item name	Specification	Price(Afs)
Concrete beam	1.9x15cm	290000
Ring	95x45cm	290000/unit
Fire wood	Archa	10000/seer
Diesel	Irani	14000/litter
Petrol	Irani	20000/litter
Kerosene	Pakistani	18000/litter
Mobile oil	Super Germany	370000/5 litter
Mobile oil	Super Momin	250000/5 litter
Matches	Pakistani	500/unit
Soap	Irani	7000/unit
Urea	Pakistani	450000/bag
DAP	Pakistani	780000/bag

Appendix Y: List of active UN agencies and NGOs in Gardez district

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
1	Ahangaran		IRC	Improved breed chicken distribution	Completed
			DACAAR	Water supply	Completed
			ICRC	Human dispensary	Ongoing
			UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
2	Aslatbeg		UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Completed
3	Atam Kalay		UNICEF	Human vaccination	Completed
4	Bala Deh	Afzal Khel	UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
			IRC	Micro credit	Completed
5	Bala Deh	Bala Deh	UNICEF	Human vaccination	Completed
			SCA	Clinic	Ongoing
			IRC	Distribution of imp. seed and fert.	Completed
			IRC	Micro credit	Ongoing
6	Bala Deh	Raies Khel	UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
			IRC	Micro credit	Ongoing
7	Bala Deh	Rodak	IRC	Construction of diversion dam	Completed
			UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Completed
8	Banozai	Banozai	CARE	Water supply	Ongoing
			UNICEF	Human vaccination	Completed
			ATC	Demining	Ongoing

Appendix Y: List of active UN agencies and NGOs in Gardez district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
9	Banozai	Darabal	CARE UNKNOWN UNICEF	Cleaning of canal/stream Demining Human vaccination	Completed Completed Completed
10	Banozai	Salar Kalay	MDC UNICEF	Demining Human vaccination	Completed Completed
11	Chakan Shekhan		IRC CARE UNICEF ATC	Water supply Construction of reservoir Human vaccination Demining	Completed Completed Completed Completed
12	Chawanay	Metran Khel	UNHCR IRC UNICEF UNKNOWN	Water supply Improved breed chicken distribution Human vaccination Distribution of tailoring machine	Completed Completed Completed Completed
13	Chawanay	Pahlawan Khel	UNHCR IRC UNKNOWN UNICEF	Water supply Improved breed chicken distribution Demining Human vaccination	Completed Completed Completed Completed
14	Chawanay	Rabati	DACAAR UNICEF ATC	Water supply Human vaccination Demining	Completed Completed Completed
15	Dara		UNKNOWN	Demining	Completed
16	Dawlatzai	Habib Khel	UNICEF DACAAR	Human vaccination Water supply	Completed Completed

Appendix Y: List of active UN agencies and NGOs in Gardez district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
17	Dawlatzai	Laghar	UNICEF	Human vaccination	Completed
			UNHCR	Cleaning of Karez	Completed
			SCA	Water supply	Completed
18	Dawlatzai	Ali Jan Khel	DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
19	Dawlatzai	Dray Plari	UNICEF	Human vaccination	Completed
20	Dawlatzai	Fathullah	UNICEF	Human vaccination	Completed
21	Dawlatzai	Gadai Khel	UNKNOWN	Water supply	Completed
			UNICEF	Human vaccination	Completed
22	Dawlatzai	Gajan	UNHCR	Cleaning of karez	Completed
			UNICEF	Human vaccination	Completed
23	Dawlatzai	Ghunday Kalay	IRC	Water supply	Completed
			IRC	Repairing of karez	Ongoing
			UNICEF	Human vaccination	Completed
24	Dinar Khel		IRC	Water supply	Completed
			IRC	Construction of irrigation system	Completed
			IRC	Distribution of improved seed	Completed
			UNICEF	Human vaccination	Completed
			ATC	Demining	Completed
25	Doghabad		CARE	Protection wall	Completed
			DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed

Appendix Y: List of active UN agencies and NGOs in Gardez district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
26	Golo Khel		UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Completed
			IRC	Distribution of imp. seed and fert.	Completed
27	Golowall	Bar Golowall	UNICEF	Human vaccination	Completed
			RRD	Water supply	Completed
28	Golowall	Kuz Golowall	UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Completed
			CARE	Gabion wall	Completed
29	Hemat Khel		UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Completed
30	Ibrahim Khel	Azami Khel	ATC	Demining	Completed
			IRC	Sanitation	Completed
			IRC	Water supply	Completed
			UNICEF	Human vaccination	Completed
31	Ibrahim Khel	Bada Khel	NAC	Water supply	Completed
			IRC	Water supply	Completed
			UNICEF	Human vaccination	Completed
32	Ibrahim Khel	Ghani Qala	IRC	Water supply	Completed
			UNICEF	Human vaccination	Completed
			ATC	Demining	Completed
33	Ibrahim Khel	Karama Khel	UNICEF	Human vaccination	Completed
			SCA	Water supply	Completed
			ATC	Demining	Completed

Appendix Y: List of active UN agencies and NGOs in Gardez district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
34	Ibrahim Khel	Mashad Khel	SCA	Water supply	Completed
			IRC	Water supply	Completed
			UNICEF	Human vaccination	Completed
35	Ibrahim Khel	Pakhary	IRC	Water supply	Completed
			UNICEF	Human vaccination	Completed
36	Ibrahim Khel	Pirzad Khel	DACAAR	Water supply	Completed
			IRC	Water supply	Completed
			ATC	Demining	Completed
			UNICEF	Human vaccination	Completed
37	Ibrahim Khel	Rahmat Khel	DACAAR	Water supply	Completed
			SCA	Water supply	Completed
			IRC	Sanitation	Completed
			IRC	Distribution of plants	Completed
			UNICEF	Human vaccination	Completed
38	Ibrahim Khel	Raza Khel	ATC	Demining	Completed
			UNICEF	Human vaccination	Completed
			UNKNOWN	Water supply	Completed
39	Ibrahim Khel	Sadiq Khel	DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
			ATC	Demining	Completed
40	Ibrahim Khel	Sarwar Khel	DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
41	Ibrahim Khel	Tan Khan Khel	ATC	Demining	Completed
			DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed

Appendix Y: List of active UN agencies and NGOs in Gardez district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
42	Ibrahim Khel	Walyan	MDC	Demining	Completed
			ATC	Demining	Completed
			UNICEF	Human vaccination	Completed
43	Karmashi		DACAAR	Water supply	Completed
			CARE	Water supply	Completed
			UNICEF	Human vaccination	Completed
44	Khan Qala		CARE	Construction of bridge	Ongoing
			UNICEF	Human vaccination	Completed
45	Khataba	Sadiq Khel	DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
			IRC	Distribution of plants	Completed
46	Khataba	Shakar Khel	IRC	Micro credit, Improved chicken	Completed
			UNICEF	Human vaccination	Completed
			RRD	Water supply	Completed
			DACAAR	Water supply	Completed
			UNKNOWN	Distribution of imp. seed and fert.	Completed
47	Khataba	Shekhano Qala	RRD	Water supply	Completed
			UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Completed
			IRC	Nursery	Completed
48	Khwaja Hassan	Khwaja Hassan Ulya	CARE	Sanitation	Completed
			UNICEF	Human vaccination	Completed
			IRC	Distribution of improved seed	Completed
			IRC	Improved breed chicken distribution	Completed
			CARE	Water supply	Completed

Appendix Y: List of active UN agencies and NGOs in Gardez district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
49	Khwaja Hassan	Khwaja Hassan Sufla	CARE	Construction of stream	Completed
			CARE	Sanitation	Completed
			IRC	Distribution of improved seed	Completed
			UNICEF	Human vaccination	Completed
			IRC	Improved breed chicken distribution	Completed
50	Kochi Khel		DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
51	Kwash	Azgana	UNICEF	Human vaccination	Completed
52	Kwash	Bar Kwash	CARE	Construction of reservoir	Completed
			CARE	Education program	Completed
			UNICEF	Human vaccination	Completed
			MDC	Demining	Completed
53	Kwash	Koz Kwash	CARE	Education program	Ongoing
			UNICEF	Human vaccination	Completed
54	Mahmud Qala		UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Completed
			IRC	Distribution of agrochemical	Completed
			IRC	Improved breed chicken distribution	Completed
			IRC	Distribution of imp. seed and fert.	Completed
55	Melan	Doaba	CARE	Construction of diversion dam	Completed
			UNKNOWN	Distribution of vegetable seed	Completed
			UNICEF	Human vaccination	Completed

UNOPS/ARRP/ACBAR BASELINE SURVEY
MAY 2000

Date: ______________________
Enumerator's code: ____________
Number of Interviewees in the group: _____
Map No.______________________

Province: _________________
District: _________________
Main village: _______________
Sub-village: _________________

ALL QUESTIONS ABOUT THE VILLAGE:

I. GENERAL:

A. Specification of the village:

1. Distance from the district center _______________Km
2. Ethnic groups living in the village by percentage;
   a. ____________ = ______ %   b. ___________ = _________%
   c. ____________ = ______%   d. ____________ = _________%

B. No. Of houses:

1. Total No. of houses in the village. _______________________
   Undamaged __________; Damaged __________; Destroyed ___________

C. Drinking water sources:

1. What is the drinking water source of the village? List them by the percentage used;
   1. ______ = _____ % 2. _______ = ______% 3. ________ = _____%

   a. River   d. Open well   g. Pond
   b. Canal /Joy   e. Spring   h. Karez
   c. Covered well   f. Pipe water   i. Others

specify)___________

2. How far is the mostly used drinking water source from the village? _____Km

D. Access road to the village:

1. Is there access road to the village? Yes ________ No__________
2. If yes, what is the condition of the road? _______________________

   a .Good   b. Fairly good   c. Bad

3. If no, how far is the village from the road? _________________Km

E. Transportation:

1. What kind of transportation is used by villagers? List them by the percentage used.
   1. ______ =_____% 2._____ =______% 3. _____ = _____%
   a. Vehicle b. Horse c. Donkey d. Camel e. Other __________

Appendix Y: List of active UN agencies and NGOs in Gardez district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
56	Melan	Habib Qala	CARE IRC UNICEF	Syphone and road construction Distribution of imp. seed and fert. Human vaccination	Ongoing Completed Completed
57	Melan	Hajiano Kalay	CARE UNICEF IRC UNKNOWN	Construction of irrigation system Human vaccination Distribution of improved seed Distribution of vegetable seed	Completed Completed Completed Completed
58	Melan	Melan	UNKNOWN CARE MDC UNICEF UNHCR	Distribution of imp. seed and fert. Construction of diversion dam Demining Human vaccination House building	Completed Completed Suspend Completed Completed
59	Melan	Shekhan	UNICEF ATC	Human vaccination Demining	Completed Completed
60	Mia Noor Khel		DACAAR UNICEF DACAAR	Water supply Human vaccination Protection wall	Completed Completed Completed
61	Mianur Qala		RRD UNICEF IRC	Water supply Water supply Distribution of improved seed	Completed Completed Completed
62	Mumray		DACAAR UNICEF RAFA	Water supply Human vaccination Construction of irrigation system	Completed Completed Completed
63	Niazi Qala		UNICEF	Human vaccination	Completed

Appendix Y: List of active UN agencies and NGOs in Gardez district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
64	Nisti Kot	Kuz Nistikot	UNICEF	Human vaccination	Completed
65	Nistikot	Bar Nistikot	UNICEF	Human vaccination	Completed
			RRD	Water supply	Completed
66	Pushta		CARE	Syphone construction	Completed
			UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fer.	Completed
			IRC	Distribution of plants	Completed
			ATC	Demining	Completed
67	Qala Halim		DACAAR	Construction of diversion dam	Completed
			DACAAR	Construction of bridge	Completed
			UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
			IRC	Improved breed chicken distribution	Completed
68	Qala-e-Arjal		UNICEF	Human vaccination	Completed
			PRO	Water supply	Completed
			CARE	Sanitation	Completed
69	Qala-e-Dahbashi		DACAAR	Water supply	Completed
			IRC	Education program	Ongoing
			UNICEF	Human vaccination	Completed
70	Qala-e-Sarsang		DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
71	Qala-e-Sayedan		UNKNOWN	Water supply	Ongoing
			UNICEF	Human vaccination	Completed

Appendix Y: List of active UN agencies and NGOs in Gardez district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
72	Qala-e-Zargar		IRC	Nursery	Ongoing
			CARE	Protection wall	Completed
			IRC	Distribution of imp. seed and fert.	Completed
73	Rabat	Rabat	UNICEF	Human vaccination	Completed
			CARE	Water supply	Completed
74	Rabat	Shah-e-Qadam	UNICEF	Human vaccination	Completed
75	Sadat Khel		IRC	Distribution of imp. seed and fert.	Completed
			IRC	Distribution of vegetable seed	Completed
			DACAAR	Water supply	Completed
			CARE	Education program	Ongoing
76	Saidan	Mashayan	UNICEF	Human vaccination	Completed
			UNKNOWN	Distribution of imp. seed and fert.	Completed
77	Saparai		CARE	Water supply	Completed
			UNICEF	Human vaccination	Completed
78	Sepahi Khel		CARE	Cleaning of canal/stream	Completed
			UNHCR	House building	Completed
			UNHCR	Cleaning of karez	Completed
			UNICEF	Human vaccination	Completed
79	Shahr-e-Naw		UNICEF	Human vaccination	Completed
			CARE	Water supply	Completed
			DACAAR	Water supply	Completed
			IRC	Improved breed chicken distribution	Completed
80	Shekhan		UNICEF	Human vaccination	Completed

Appendix Y: List of active UN agencies and NGOs in Gardez district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
81	Shekhan		DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
			RRD	Water supply	Completed
82	Shekhan		UNICEF	Human vaccination	Completed
			ATC	Demining	Completed
			CARE	Construction of irrigation system	Completed
			SCA	Water supply	Completed
			DACAAR	Water supply	Completed
83	Talbi Khel		UNICEF	Human vaccination	Completed
84	Teray	Azad Khan Khel	CARE	Gabion wall	Completed
			UNICEF	Human vaccination	Completed
85	Teray	Bagho Kalay	UNICEF	Human vaccination	Completed
			UNKNOWN	Gabion wall	Completed
86	Teray	Charmakhkay	UNICEF	Human vaccination	Completed
87	Teray	Fazal Qala	DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
88	Teray	Ghafur Khel	UNICEF	Human vaccination	Completed
89	Teray	Kuz Lewan	UNICEF	Human vaccination	Completed
90	Teray	Lewanian	UNICEF	Human vaccination	Completed
			RRD	Water supply	Completed
			CARE	Gabion wall	Completed

Appendix Y: List of active UN agencies and NGOs in Gardez district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
91	Teray	Lewan	UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Completed
			UNKNOWN	Cleaning of karez	Completed
92	Teray	Momin Khel	UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Completed
93	Teray	Nawrakay	UNICEF	Human vaccination	Completed
94	Teray	Samad Khel	UNICEF	Human vaccination	Completed
95	Teray	Spina Qala	CARE	Gabion wall	Completed
			UNICEF	Human vaccination	Completed
			RRD	Water supply	Completed
96	Teray	Sra Qala	UNICEF	Human vaccination	Completed
97	Teray	Tandan	CARE	Construction of diversion dam	Completed
			CARE	Education program	Completed
			UNICEF	Human vaccination	Completed
98	Teray	Tarkanan	UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Completed
99	Teray	Woch Khakh	UNICEF	Human vaccination	Completed
100	Utmanay		UNICEF	Human vaccination	Completed
			CARE	Construction of irrigation system	Ongoing
101	Woch Gharak		DACAAR	Water supply	Completed
			CARE	Gabion wall	Completed
			UNICEF	Human vaccination	Completed

Appendix Y: List of active UN agencies and NGOs in Gardez district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
102	Zawa		CARE	Construction of irrigation system	Ongoing
			UNICEF	Human vaccination	Completed
			KNF	Health care	Ongoing
			IRC	Distribution of imp. seed and fert.	Completed

Appendix Y1: List of active UN agencies and NGOs in Sayed Karam district

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
1	Ahmad Shah Khel		UNICEF	Human vaccination	Completed
2	Andwam		UNICEF	Human vaccination	Completed
			SCA	Water supply	Completed
3	Arab Khel		UNICEF	Human vaccination	Completed
			RRD	Water supply	Completed
4	Ashpan		UNKNOWN	Water supply	Completed
			IRC	Distribution of agrochemical	Completed
			UNICEF	Human vaccination	Completed
			IRC	Education program	Completed
5	Bar Sejenak		IRC	Education program	Ongoing
			IRC	Construction of stream	Ongoing
			IRC	Improved breed chicken distribution	Completed
			UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
6	Bar Sejenak	Alamgay	MARUF	Water supply	Completed
			UNKNOWN	Mine awareness	Ongoing
			UNICEF	Human vaccination	Completed
7	Batyan Khel		UNICEF	Human vaccination	Completed
8	Cher Rakay		UNICEF	Human vaccination	Completed
9	Chino	Chino	DACAAR	Water supply	Completed
			IRC	Distribution of imp. seed and fert.	Completed
			IRC	Midwife training	Completed
			UNICEF	Human vaccination	Completed
			IRC	Distribution of plants	Ongoing

Appendix Y1: List of active UN agencies and NGOs in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
10	Chino	Chino Sar	UNICEF	Human vaccination	Completed
11	Chino	Durrani	DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Ongoing
			IRC	Midwife training	Completed
			IRC	Improved breed chicken distribution	Completed
12	Dam	Ayubi	UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Ongoing
13	Dam	Khogory	DACAAR	Water supply	Ongoing
			UNICEF	Human vaccination	Completed
14	Dam	Mir Ail Khel	UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Ongoing
15	Dawlat Khel		IRC	Distribution of imp. seed and fert.	Completed
			DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
16	Gharak	Talkhan	UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
17	Ghonday		UNICEF	Human vaccination	Completed
18	Ghwareza		MDC	Mine survey	Completed
			UNICEF	Human vaccination	Completed

Appendix Y1: List of active UN agencies and NGOs in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
19	Gud Mangal Qala		IRC	Midwife training	Ongoing
			IRC	Distribution of imp. seed and fert.	Completed
			UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Completed
20	Isa Khel		IRC	Micro credit, Improved chicken	Completed
			UNICEF	Human vaccination	Completed
			DACAAR	Construction of diversion dame	Completed
			IRC	Distribution of vegetable seed	Completed
			RAFA	Water supply	Completed
21	Jangi Khel		RRD	Water supply	Completed
			UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
22	Kalgar	Mohd Amin Khel	IRC	Education program	Ongoing
			IRC	Construction of diversion dam	Completed
			IRC	Sanitation	Completed
			UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Completed
23	Kamran Khel		IRC	Water supply	Completed
			UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
24	Karezgay		UNICEF	Human vaccination	Completed
			IRC	Water supply	Completed
			IRC	Education program	Ongoing
25	Kerkin	Gorandi Shekhan	UNICEF	Human vaccination	Completed

Appendix Y1: List of active UN agencies and NGOs in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
26	Kerkin	Jan Ghunday	UNICEF	Human vaccination	Completed
			UNKNOWN	Water supply	Completed
27	Kerkin	Selarai	UNKNOWN	Water supply	Completed
			UNICEF	Human vaccination	Completed
28	Kerkin	Sru Kholeh	UNICEF	Human vaccination	Completed
29	Kerkin	Sur Petaw	UNICEF	Human vaccination	Completed
30	Kerkin	Wocha Lagada	UNICEF	Human vaccination	Completed
31	Kerkin Kholeh		UNICEF	Human vaccination	Completed
			IRC	Distribution of agrochemical	Completed
			UNKNOWN	Water supply	Completed
32	Khan Khel		UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
			DACAAR	Water supply	Completed
			IRC	Improved breed chicken distribution	Completed
33	Khand Khel	Khand Khel	UNHCR	Distribution of doors and windows	Completed
			UNKNOWN	Water supply	Completed
			ATC	Demining	Completed
			IRC	Improved breed chicken distribution	Completed
			UNKNOWN	Construction of diversion dam	Completed
34	Khand Khel	Lalak Kalay	IRC	Distribution of imp. seed and fert.	Completed
			IRC	Distribution of agrochemical	Completed
			UNICEF	Human vaccination	Completed

II. POPULATION AND REPATRIATION:

A. Population:

1. Total No. of families in the village now ____________
2. Average No. of people in the family ____________
3. Average No. of children in the family below the age of 10 ____________
4. Are there any nomad families living close to the village now?
   Yes ______ No ______

4.1 If yes, No. of families ____________
   Total No. of disabled people in the village Male ______ Female ______
5. No. of widows in the village ____________

B. Repatriation:

1. No. of families in the village before war ____________
2. No. of families in the village have never been refugees or internally displaced. ____________
3. No. of returned families:
   Completely ________ Partially ________ Total ________
4. No. of families still: Refugee ________ Displaced ________
5. Main problems in returning of refugee or displaced families:
   1. ________ 2. ________ 3. ________ 4. ________
   a. Lack of houses b. Lack of food c. Unemployment
   d. Security e. Fighting
   f. Abandoned arable land g. Damaged irrigation system
   h. Other (specify) ____________
6. How many families of the village are not originally from this village? ________

III. AGRICULTURE:

A. Agricultural land in the village:

1. Arable land: Irrigated: ______ J Rain-fed: ______ J Total: ______J
2. Cultivated land: Irrigated: ______J Rain-fed: ______ J Total: ______J
3. Abandoned land: Irrigated: ______ J Rain-fed: ______ JTotal: ______J

3.1. Reason for abandonment : ____________
   a. Mines b. Shortage of irrigation water c. Lack of farm power
   d. Other (specify) ____________
4. Use of cultivated land and its percentage.
   a. Double cropped: ______._____% b. Single cropped ______%
5. Total Jeribs of orchards in the village ____________J
6. Is there any nursery/nurseries in the village? Yes ______ No ______

6.1. If yes: No. and acreage of fruit nurseries ____________, ____________J.
   No. and acreage of forest nurseries____________, ____________J.

Appendix Y1: List of active UN agencies and NGOs in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
35	Khawajar Khel		DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
			IRC	Distribution of improved seed	Completed
			DRR	Water supply	Completed
36	Kosin	Bar Khano Khel	UNICEF	Human vaccination	Completed
			IRC	Sanitation	Completed
37	Kosin	Gorgori Qala	DACAAR	Sanitation	Completed
			IRC	Water supply	Completed
			UNICEF	Human vaccination	Completed
38	Kosin	Kalgar	IRC	Distribution fruit trees	Completed
			IRC	Construction of diversion dam	Completed
			DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
39	Kosin	Khoshal Khel	MARUF	Water supply	Completed
			IRC	Sanitation	Completed
			UNICEF	Human vaccination	Completed
			UNKNOWN	Construction of diversion dam	Completed
40	Kosin	Kuz Khano Khel	UNICEF	Human vaccination	Completed
			MARUF	Water supply	Completed
			IRC	Sanitation	Completed
41	Kosin	Masak Karez	UNICEF	Human vaccination	Completed
			ATC	Demining	Completed
42	Kosin	Shayasta Kalay	UNICEF	Human vaccination	Completed

Appendix Y1: List of active UN agencies and NGOs in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
43	Kosin	Shekhan	IRC	Distribution of imp. seed and fert.	Completed
			UNICEF	Human vaccination	Completed
44	Kotkay		DACAAR	Water supply	Completed
			IRC	Tubewell, seed, chicken breeds	Completed
			IRC	Distribution of agrochemical	Ongoing
			GAF	Animal clinic	Ongoing
			UNICEF	Human vaccination	Completed
45	Koz Feroz Khel		UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
46	Kunder Khel		DACAAR	Water supply	Completed
			CARE	Construction of diversion dam	Completed
			UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
47	Kuz Sejenak	Kuz Sejenak	IRC	Improved breed chicken distribution	Completed
			IRC	Micro credit	Completed
			IRC	Education program	Ongoing
			UNICEF	Human vaccination	Completed
48	Kuz Sejenak	Tarai	UNICEF	Human vaccination	Completed
49	Machal Ghu	Akbar Khel	UNICEF	Human vaccination	Completed
			UNKNOWN	Improved breed chicken distribution	Completed
			NPO/RRAA	Construction of clinic building	Completed
50	Machal Ghu	Bazu Khel	CARE	Repairing of related structures	Completed
			CARE	Education program	Ongoing
			UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed

Appendix Y1: List of active UN agencies and NGOs in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
51	Machal Ghu	Gandir Khel	UNICEF	Human vaccination	Completed
			CARE	Repairing of related structures	Completed
52	Machal Ghu	Godian	UNICEF	Human vaccination	Completed
53	Machal Ghu	Hassan Qala	CARE	Education program	Ongoing
			DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
54	Machal Ghu	Lewan	UNICEF	Human vaccination	Completed
55	Machal Ghu	Mado Khel	UNICEF	Human vaccination	Completed
56	Machal Ghu	Mamozai	DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
			CARE	Construction of syphone	Completed
			CARE	Construction of diversion dam	Completed
57	Machal Ghu	Mulla Khel	DACAAR	Water supply	Completed
			CARE	Construction of diversion dam	Completed
			CARE	Construction of syphone	Completed
58	Machal Ghu	Nagram	UNICEF	Human vaccination	Completed
			CARE	Education program	Ongoing
			DACAAR	Water supply	Completed
59	Machal Ghu	Nandar Khel	UNICEF	Human vaccination	Completed
60	Machal Ghu	Nora Khel	UNICEF	Human vaccination	Completed
			CARE	Gabion wall	Completed
			UNKNOWN	Improved breed chicken distribution	Completed

Appendix Y1: List of active UN agencies and NGOs in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
61	Machal Ghu	Pala Khel	UNICEF CARE	Human vaccination Education program	Completed Ongoing
62	Machal Ghu	Salim Khan Khel	UNICEF CARE	Human vaccination Repairing of related structures	Completed Completed
63	Machal Ghu	Sayed Khel	CARE UNICEF	Constriction of diversion dam, syphone Human vaccination	Completed Completed
64	Machal Ghu	Spina Qala	UNICEF CARE	Human vaccination Construction of diversion dam	Completed Completed
65	Machal Ghu	Taro Khel	UNICEF DACAAR CARE CARE	Human vaccination Water supply Education program Construction of diversion dam	Completed Completed Ongoing Completed
66	Machal Ghu	Toor Khel	CARE UNICEF	Construction of diversion dam Human vaccination	Completed Completed
67	Machal Ghu	Wach Khakh Qala	UNICEF	Human vaccination	Completed
68	Mawroz Khel		CARE UNICEF IRC IRC	Water supply Human vaccination Distribution of improved seed Midwife training	Completed Completed Completed Completed
69	Merzaka	Azad Khel	UNICEF	Human vaccination	Completed
70	Merzaka	Batay	UNICEF DACAAR	Human vaccination Water supply	Completed Completed

Appendix Y1: List of active UN agencies and NGOs in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
71	Merzaka	Chanjay Khwar	UNICEF	Human vaccination	Completed
72	Merzaka	Chungay	UNICEF	Human vaccination	Completed
73	Merzaka	Garamay	UNICEF	Human vaccination	Completed
74	Merzaka	Ghonzay	UNICEF	Human vaccination	Completed
75	Merzaka	Hajian	UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Completed
76	Merzaka	Kajeray	UNICEF	Human vaccination	Completed
77	Merzaka	Khalilan	DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
78	Merzaka	Serkay Tanga	UNICEF	Human vaccination	Completed
79	Mia Khel		UNICEF	Human vaccination	Completed
80	Mir Zaka	Nora China	UNICEF	Human vaccination	Completed
81	Naray Kalay		UNICEF	Human vaccination	Completed
82	Nigram	Ainuddin Qala	ATC	Demining	Ongoing
			UNKNOWN	Water supply	Completed
			IRC	Distribution of agrochemical	Ongoing
			UNICEF	Human vaccination	Completed
83	Osman Khel	Mach	IRC	Water supply	Completed
			UNICEF	Human vaccination	Completed
			IRC	Cleaning of karez	Completed
			IRC	Bee keeping	Ongoing

Appendix Y1: List of active UN agencies and NGOs in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
84	Osman Khel	Raza Khel	UNKNOWN	Water supply	Completed
			UNICEF	Human vaccination	Completed
85	Qader Khel		DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
			IRC	Distribution of improved seed	Completed
86	Salam Khel	Afzal Khel	IRC	Distribution of imp. seed and fert.	Completed
			UNICEF	Human vaccination	Completed
			IRC	Water supply	Completed
87	Salam Khel	Bike Khel	DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
			IRC	Nursery	Completed
88	Salam Khel	Salu Khel	UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
			IRC	Midwife training	Completed
89	Salam Khel	Sra Qala	UNICEF	Human vaccination	Completed
			DACAAR	Water supply	Completed
			IRC	Distribution of imp. seed and fert.	Completed
90	Salam Khel	Sur Sang	DACAAR	Water supply	Completed
			ATC	Demining	Ongoing
			IRC	Distribution of imp. seed and fert.	Completed
			CARE	Construction of diversion dam	Completed
			UNICEF	Human vaccination	Completed
91	Salemi Nargay		UNICEF	Human vaccination	Completed

Appendix Y1: List of active UN agencies and NGOs in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
92	Sarwar Qala		UNICEF	Human vaccination	Completed
			IRC	Water supply	Completed
93	Sayed Khel		DACAAR	Water supply	Completed
			IRC	Midwife training	Completed
			UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
94	Serkay Malang		UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
			DACAAR	Water supply	Completed
95	Sham Ghunday		UNICEF	Human vaccination	Completed
96	Shamsherabad		DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
			UNKNOWN	Midwife training	Completed
97	Spina Qala		DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
98	Sur Sangyan		UNICEF	Human vaccination	Completed
99	Talbi Khel		DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed
			IRC	Improved breed chicken distribution	Completed
100	Tand Gharak	Ataei Qala	UNICEF	Human vaccination	Completed
101	Tand Gharak	Miw Khel	DACAAR	Water supply	Completed
			UNICEF	Human vaccination	Completed

Appendix Y1: List of active UN agencies and NGOs in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Name of NGOs/UN agencies	Type of activity	Status of project
102	Tand Gharak	Saway	CARE	Construction of diversion dam	Completed
			CARE	Construction of syphone	Completed
			UNICEF	Human vaccination	Completed
103	Tand Gharak	Zundi Khel	CARE	Water supply	Completed
			CARE	Construction of diversion dam	Completed
			UNICEF	Human vaccination	Completed
			UNKNOWN	Improved breed chicken distribution	Completed
104	Tand Ghurak	Fazal Khel	UNICEF	Human vaccination	Completed
			CARE	Water supply	Completed
105	Usman Khel	Esa Khel	UNICEF	Human vaccination	Completed
			IRC	Water supply	Completed
			IRC	Education program	Ongoing
			IRC	Distribution of imp. seed and fert.	Completed
			IRC	Micro credit	Completed
106	Usman Khel	Lewanian Khel	MDC	Demining	Completed
			UNICEF	Human vaccination	Completed
			IRC	Water supply	Completed
107	Yahya Khel		UNICEF	Human vaccination	Completed
108	Yargul Khel		UNICEF	Human vaccination	Completed
			IRC	Distribution of imp. seed and fert.	Completed
			IRC	Micro credit	Completed
			GAF	Animal clinic	Ongoing

Appendix Z
Map of the surveyed area

PAKTIA PROVINCE

Gardez District

ProMIS



UNDP/FAO

GARDEZ 0701

SAYYID KARAM 0727

ZURMAT 0731

SHAWAK 0725

DRAFT

LEGEND

- District Boundaries
- Primary Roads
- Secondary Roads
- Tertiary Roads
- Foot Paths
- Rivers
- District Centers
- Sub-District Centers
- USDMA Villages
- New Villages
- Cultivated Areas

Sources:

Road locations:

Digitized from Afghanistan 1:100,000 series,(USDMA) (Washigton 1968-1985) . These represent with a few exceptions,prewar roads. Newly created or widened roads are often missing.

Province Borders and District(MCE) Borders and Codes:

Minor Civil Divisions Map A.Ashraf et al. for the ADS and the Ministry of Planning (Kabul, 1973).Province bourdaries follows aid community reporting standards and do not reflect the recent changes. MCD boundaries are accurate to within 10 km.

Cultivated Areas,Roads & Rivers

Cultivated areas, Roads & Rivers are derived from Afghanistan 1:100,000 scale maps(USDMA).

Designations and Boundaries:

New Villages:

Addtional / New Villages are introduced by ACBAR.
Date: 27 May 2000.



Map by:UNDP/ProMIS 09/2000
Prj.: AFG/97/001/A/08/12.

B. Main crops grown and yield per Jerib:

1. Wheat:Irrigated ________ Seer / Jerib
   Rain-fed ________ Seer / Jerib
2. Rice ________ Seer / Jerib
3. Maize________ Seer / Jerib
4. Onion ________ Seer / Jerib
5. Potatoes________ Seer / Jerib
6. Tomatoes ________Seer / Jerib
7. Apple ________ Seer / Jerib ________ Seer / tree
8. Apricot ________ Seer / Jerib ________Seer / tree
9. Grape ________ Seer / Jerib ________ Seer / tree
10. Pomegranates ________Seer / Jerib ________ Seer / tree
11. Other (Specify)________, ______ Seer / ________, ______ Seer /

C. Do the villagers take their products to market? Yes ____ No ____

If yes list them:

Cereals:	____	____	____	____
Pulses:	____	____	____	____
Fruit:	____	____	____	____
Vegetable:	____	____	____	____
Forage:	____	____	____	____
Animals:	____	____	____	____
Crafts:	____	____	____	____
Indus, crop:	____	____	____	____
Others:	____	____	____	____

D. Farm power:

1. No. of Oxen: ________
2. No. of tractors: ________
3. No. of Threshers: ________

E. Use of improved seed, fertilizer and agrochemical:

1. Do the farmers in the village grow improved seeds of :

	Wheat	Maize	Rice
	Y ___ N ____	Y____ N ___	Y__ N ___
If yes, Which varieties	________	________	________
	________	________	________
	________	________	________

1.1 Rate of sowing: ________ Seer / J ________ Seer / J

PAKTIA PROVINCE

Sayed Karam District

ProMIS



UNDP/FAO

LEGEND

- District Boundaries
- Primary Roads
- Secondary Roads
- Tertiary Roads
- Foot Paths
- Rivers
- District Centers
- Sub-District Centers
- USDMA Villages
- New Villages
- Cultivated Areas

PUL-E ALAM 0506

HASSAN KHEL 0720

SAYYID KARAM 0727

LAJMANGAL 0730

GARDEZ 0701

KALANDAR 0718

Sayyid Karam

Gardez

Hassan Khel

Lazha

Khost-e-Maila

DRAFT

Sources:

Road locations:

Digitized from Afghanistan 1:100,000 series,(USDMA) (Washigton 1968-1985) . These represent with a few exceptions,prewar roads. Newly created or widened roads are often missing.

Province Borders and District(MCE) Borders and Codes:

Minor Civil Divisions Map A.Ashraf et al. for the ADS and the Ministry of Planning (Kabul, 1973).Province bourdaries follows aid community reporting standards and do not reflect the recent changes. MCD boundaries are accurate to within 10 km.

Cultivated Areas,Roads & Rivers

Cultivated areas, Roads & Rivers are derived from Afghanistan 1:100,000 scale maps(USDMA).

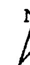
Designations and Boundaries:

The designations employed and the presentation of material in this publication do not imply the expression of any opinion whatsoever the part of the United Nations Development Programme(UNDP). concerning the legal status of any country, city or area or of its authorities of concerning the delimitation of its frontier or boundaries.

New Villages:

Addtional / New Villages are introduced by ACBAR.
Date: 27 May 2000.

Map by:UNDP/ProMIS 09/2000
Prj.: AFG/97/001/A/08/12.


N

2. Do the farmers in the village use:

	Fertilize		Agrochemical	
	Y____ N_____		Y_____ N______	
	Name	Price/bag	Name	Price/unit
If yes, which	__________,	__________	__________,	__________
Type of them	__________,	__________	__________,	__________
	__________,	__________	__________,	__________

F. Busy time of the people throughout the year (Months) (solar year)

________ ________ ________ ________ ________ ________

IV. ILLICIT CROP PRODUCTION:

1. Do the people in the village grow:

	Poppy	Hashish
	Yes ___No ____	Yes___ No ___
1.1. If yes, total jeribs cultivated this year:	____________J	_________J
1.2. Yield per jerib	____________Kg	_________Kg
2. No. of addicts in the village:	____________	_________

3. Major reasons for growing illicit crop by the villagers.
1. ______________________________ 2. ______________________________
3. ______________________________ 4. ______________________________

V. IRRIGATION:

1. No. of irrigation water sources served the village and their percentage in irrigation of the irrigated land of the village.

	Canal/stream	Karez	Spring	Wells
No. and percentage:	____,____%	____,____%	____,___%	____, ___%
2. Does the water flow normally	Y___ N ___	Y___N___	Y___ N ___	Y___ N ___
2.1.If no, what kind of work should be done for normal operation of them	_________	_________	_________	_________

a. Canal cleaning b. Construction of diversion dam
c. Repairing of related structures d. Cleaning of karez channel
e. Extension of karez channel f. Cleaning of karez wells
g. Other (specify) ______________

3. Is there enough water in the irrigation system for the irrigation of irrigable land of the village? Yes__________ No __________
3.1 If no, the present water flow is enough for how much of the irrigable land?
____________________%
4. In which months of the year there are shortage of irrigation water in the village and the proportion of flow during the shortage comparing to the normal flow?
From______________ to ______________, ________________%

5. What are the main reasons for irrigation water shortage at the above mentioned time?
1. __________ 2.__________ 3. __________ 4.__________

VI. LIVESTOCK AND POULTRY:

1. No. of livestock in the village owned by the villagers:

Cattle (except oxen)	Sheep & Goat	Camel	Donkey	Horse	Other
________	________	________	________	________	________

2. Average No. of chicken per family in the village? ______________
2.1. What percent of the chicken in the village are of improved breeds? __________%

VII. EDUCATION:

(Questions 1-6.3 should be asked from the school in-charge)

1. Is there any school in the village? Yes __________ No __________
1.1. If yes, what is the name of the school? ______________________
1.2 Year of establishment ______________
1.3 What is the level of school?
a. Home b. Primary, c. Middle, d. High school
2. The number of students gender-wise:
Boys: ________________; Girls: __________________
3. Number of school age children (6-14) not attending school
Boys ____________ Girls ____________
3.1. Total number of teachers in this school? ____________
3.2. Number of; male teachers __________,female teachers ________
4. Who provides fund to this school?
a. Government b. NGO (name________) c. Community
d. Other (specify) ______________________
5. Dose the school have building? Yes________ No ________
5.1. If yes, what is the status of building?
Damaged ______________ Undamaged____________

5.2 Number of rooms in the school building? ______________
5.3 School building belongs to : ______________
a. Government b. Community c. rented

6. Is there any "Madrasa" in the village? Yes _______ No _______
6.1. If yes, what is the name of the Madrasa; _______________
6.2. Total number of students in it? _______________

6.3. Who provides fund to this Madrasa? _______________
a. Government b. NGO (name _________) c. Community
d. Other (specify) _________________________

7. No of literate people in the village

	Male:	Female:
15-30	___________	______________
31-45	___________	______________
>45	___________	______________

8. If there is no school /Madrasa in the village, how far is the nearest school to the village?____________km

9. Are parents interested to participate in the establishment of a school / Madrasa for their children? Yes _______ No _________

VIII. HEALTH:

(Questions 1-2 should be asked from clinic's in-charge)

1. Is there any clinic in the village? Yes _______ No _______
1.1. If yes, clinic's name? _________________________
1.2. Dose the clinic have any building? Yes______ No ________
1.3. If yes, status of building: Damaged __________ Undamaged_____
1.4 Number of rooms of the clinic building? ______________________
1.5 Who provides fund for the clinic? ______________________
a. Government b. NGO (name_________) c. community
d. Other (specify) __________________
1.6No. of doctors (s) in the clinic _________________
1.7No. of nurse (s) in the clinic _________________
2. Main diseases on seasonal bases in the village.

	Spring	Summer	Fall	Winter
2.1 Adult:	___________	_________	_________	___________
	___________	_________	_________	___________
	___________	_________	_________	___________
	___________	_________	_________	___________
2.2 Children:	___________	_________	_________	___________
	___________	_________	_________	___________
	___________	_________	_________	___________
	___________	_________	_________	___________
	___________	_________	_________	___________

3. If there is no clinic in the village, how far is the nearest clinic to this village? _______________km

4. Is there any trained midwife(s) or medical health worker(s) available in the village?
Yes____________ No ____________
4.1. If yes, how many? ____________________

IX. LAND MINES:

1. Is there any mined area affecting the village? Yes______ No_______
1.1 If yes, where are the mine located?
1.________ 2.________ 3. ________ 4. ________
a. In houses b. In roads c. In agricultural land
d. In irri. System e. In forest near village
f. In grazing land near village g. Other (specify) __________

2. No. of people and animals, died and disabled in the village by mine explosion so for:

	Died	disabled
People	____________	____________
Animals	____________	

X. INCOME GENERATION:

1. No. of skilled people in the village:
Male: ________ Female: _________ Disabled: __________

Type of skill	No. of people involved	Avg.Income derived /day/person

2. Seasonal productive activities in the village

Type	Time involved(monthe)	Avg.Income derived /day/person

X. UN AGENCIES/ NGOs ACTIVITIES:

1. Is there any UN agency /NGO working in the village now or during the past five years?
Yes__________ No__________
1.1 If yes:

Name of NGO	Type of activity	Status of project

XI. MARKET AND MATKET PRICES:

A. Availability of daily used items in the village:

1. Is there any shop available in the village? Yes________ No________
2. If yes, how many shops are there? ____________
3. Which kind of shops are they?
   1. ________ 2.________ 3.________ 4.________
   5. ________ 6.________ 7.________ 8.________

(The following questions should be asked in the market)

Market Location: __________________ Date: ____/____/____

B. Food items:

Name	Price (Afs)	Per unit
Sugar	__________	/ seer
Black tea	__________	/ kg
Green tea	__________	/ kg
Salt	__________	/ seer
Ghee	__________	/ kg
Flour	__________	/ seer
Rice	__________	/seer
Bean	__________	/ seer
Pea	__________	/ seer
Mung bean	__________	/ seer
Lentil	__________	/seer
Onion	__________	/seer
Potato	__________	/seer

Exchange rate of the day: Afs. ______ = 1 US$ Afs. __________ = Rs.1

C. Construction material:

Name	Specification	Price (Afs/unit)
Wood beam	____________	________ / ______
Dastak	____________	________ / ______
Steel beam	____________	________ / ______
Concrete beam	____________	________ / ______
Slabs	____________	________ / ______
Wooden door	____________	________ / ______
Steel door	____________	________ / ______
Wooden window	____________	________ / ______
Steel window	____________	________ / ______
Other	____________	________ / ______

completion. All three teams worked simultaneously in the targeted district. When all the villages in one district were surveyed they moved to another target district.

For the purpose of this survey, a village was defined as a congregation of households having a separate and distinct boundary for its agricultural land. It was the most practical and accurate way because every villager knows the boundaries of their agricultural land. Furthermore, it was also recognized by its inhabitants as a social entity suitable for representation by a common shura. One survey form was completed for each such village regardless of its size. The survey covered all villages in the targeted district.

From each village prominent residents (tribal elders, landowners, and other important and knowledgeable individuals) gathered for a group interview, with at least one interviewee the village elder. The average number of people who participated in the group interview was seven, but this varied according to the size of the village.

After the completion of the interviews, the forms were checked (by the supervisor), cross-checked (by the field coordinator), and edited for possible correction. Each enumerator carried a notebook to record some important information which was not covered in the questionnaire. For example, it was found that certain areas which were defined as one village were in actuality more than one village or vice versa. This information noted by the enumerators is important for insuring an accurate profile of The surveyed area, which can be used to update ProMIS maps.

In each survey site, all parts of the questionnaire were filled and the map of each survey site was marked according to the instructions given during training. The ASU Field Coordinator supervised and monitored the fieldwork of this survey and the performance of supervisors.

Enumerators were debriefed at the end of fieldwork. Both the training and debriefing of the enumerators took place in Peshawar.

The survey report includes an analysis of the patterns of human settlement, covering the validity of the concept of the village as used for the survey and the relationship between villages, village clusters and districts.

The results of the survey are presented on a district basis. This report is structured for ease of reference with appropriate tables presented with text and relevant lists (at village level) in the Appendices.

D. Fuel item(s):

Name	Specification	Price (Afs)
Fire wood	________	________ / seer
Diesel	________	________ / litter
Petrol	________	________ / litter
Kerosene	________	________ / litter
Other	________	________ / _____
	________	________ / _____
	________	________ / _____

E. Other item (s):

Name	Specification	Price/ unit
________	________________	/ _____
________	________________	/ _____
________	________________	/ _____
________	________________	/ _____
________	________________	/ _____
________	________________	/ _____
________	________________	/ _____
________	________________	/ _____
________	________________	/ _____

Appendices B-Y1
Survey Results at village level

Appendix B: Population of Gardez district

S/No.	Main village	Sub village	Total No. of families	Avg. No/family people	Avg. No/family children	Number of nomad families	Number of disabled male	Number of disabled female	Number of widows	% Ethnic groups Pushtun	% Ethnic groups Tajik
1	Ahangaran		100	10	0	0	8	21	0	100	0
2	Asalatbeg		25	12	4	20	3	0	2	0	100
3	Atam Kalay		20	10	5	0	3	0	2	100	0
4	Awdakay		260	14	6	150	15	5	0	100	0
5	Bala Deh	Bala Deh	270	11	6	0	8	2	3	30	70
6	Bala Deh	Afzal Khel	135	13	6	0	0	0	3	10	90
7	Bala Deh	Raies Khel	130	10	5	0	5	1	2	0	100
8	Bala Deh	Rodak	50	13	6	5	2	1	3	80	20
9	Banozai	Banozai	15	9	4	0	6	0	4	100	0
10	Banozai	Darabal Kalay	18	10	4	20	3	0	0	100	0
11	Banozai	Salar Kalay	2	9	3	0	0	0	0	100	0
12	Chakan Shekhan		5	12	5	6	0	0	0	100	0
13	Chawanay	Metran Khel	37	10	3	0	3	0	0	100	0
14	Chawanay	Pahlawan Khel	75	9	3	0	10	0	5	100	0
15	Chawanay	Rabati	60	12	5	0	3	0	4	100	0
16	Dara		65	10	4	20	4	0	0	100	0
17	Dawlat Zai	Habib Khel	30	8	4	0	2	0	0	100	0
18	Dawlat Zai	Laghar	20	8	4	0	0	0	3	100	0
19	Dawlatzai	Ali Jan Khel	13	10	3	4	4	0	1	100	0
20	Dawlatzai	Dray Plari	12	12	5	0	0	0	0	100	0
21	Dawlatzai	Fathullah	34	9	4	0	5	0	1	100	0
22	Dawlatzai	Gadai Khel	5	8	3	0	0	0	0	100	0
23	Dawlatzai	Gajan	20	10	4	0	0	0	0	100	0
24	Dawlatza	Ghunday Kalay	100	10	4	8	3	0	10	100	0
25	Dinar Khel		65	12	6	0	6	4	2	100	0
26	Doghabad		45	11	4	0	2	0	1	100	0
27	Golo Khel		17	10	4	0	4	0	3	100	0
28	Golowall	Bar Golowall	24	8	4	0	3	0	2	100	0
29	Golowall	Kuz Golowall	16	9	4	5	1	2	0	100	0
30	Hemat Khel		12	14	7	0	4	1	0	100	0

Appendix B: Population of Gardez district (Cont..)

						Number of					
			Total	Avg. No/family			disabled			% Ethnic groups	
S/No.	Main village	Sub village	No. of families	people	children	nomad families	male	female	widows	Pushtun	Tajik
31	Ibrahim Khel	Azami Khel	14	10	5	0	0	0	0	100	0
32	Ibrahim Khel	Bada Khel	25	12	6	0	2	0	2	100	0
33	Ibrahim Khel	Ghani Qala	9	12	4	0	0	0	0	100	0
34	Ibrahim Khel	Karama Khel	50	8	4	0	0	0	0	100	0
35	Ibrahim Khel	Mashad Khel	24	10	4	0	0	0	1	100	0
36	Ibrahim Khel	Pakhary	15	12	6	0	0	0	1	100	0
37	Ibrahim Khel	Pirzad Khel	45	10	3	0	4	0	2	100	0
38	Ibrahim Khel	Rahmat Khel	25	11	3	0	1	0	0	100	0
39	Ibrahim Khel	Raza Khel	8	10	5	0	1	0	0	100	0
40	Ibrahim Khel	Sadiq Khel	60	8	5	0	1	0	4	100	0
41	Ibrahim Khel	Sarwar Khel	20	12	4	0	3	0	0	100	0
42	Ibrahim Khel	Tabiban	7	12	3	0	3	0	0	100	0
43	Ibrahim Khel	Tan Khan Khel	19	10	4	0	3	0	0	100	0
44	Ibrahim Khel	Walyan	17	12	4	0	4	0	1	100	0
45	Karmashi		240	11	4	0	10	5	10	100	0
46	Khan Qala		19	9	3	25	2	0	1	100	0
47	Khataba	Sadiq Khel	125	11	6	0	10	5	6	30	70
48	Khataba	Shakar Khel	150	10	3	0	10	5	8	100	0
49	Khataba	Shekhano Qala	51	9	5	0	10	0	4	25	75
50	Khwaja Hassan	Khwaja Hassan Ulya	250	8	3	0	10	5	10	100	0
51	Khwaja Hassan	Khwaja Hassan Sufla	260	10	3	0	6	0	10	100	0
52	Kochi Khel		150	10	4	0	3	1	1	0	100
53	Kwash	Azgana	45	10	4	10	5	3	5	100	0
54	Kwash	Bar Kwash	25	12	4	0	0	0	2	100	0
55	Kwash	Koz Kwash	25	12	5	10	2	7	0	100	0
56	Kwash	Pakhari	1	12	5	5	0	0	0	100	0
57	Mahmud Qala		35	11	6	0	6	0	5	100	0
58	Mia Noor Qala		26	10	5	25	1	1	2	100	0
59	Malik Khel		80	10	4	0	4	0	6	100	0
60	Melan	Doaba	50	8	3	20	1	0	3	100	0

Appendix B: Population of Gardez district (Cont..)

S/No.	Main village	Sub village	Total No. of families	Avg. No/family people	Avg. No/family children	Number of nomad families	Number of disabled male	Number of disabled female	Number of widows	% Ethnic groups Pushtun	% Ethnic groups Tajik
61	Melan	Habib Qala	46	8	3	30	4	0	1	100	0
62	Melan	Hajiano Kalay	50	10	4	20	8	6	2	100	0
63	Melan	Melan	50	11	4	18	1	0	0	100	0
64	Melan	Shekhan	8	12	7	40	0	0	0	100	0
65	Mohd Raza Khel		8	10	4	10	1	0	0	100	0
66	Mumray		120	9	4	0	2	3	5	95	5
67	Niazi Qala		70	11	4	40	6	0	10	100	0
68	Nisti Kot	Kuz Nistikot	8	12	5	0	0	2	2	100	0
69	Nistikot	Bar Nistikot	50	12	6	10	10	2	8	100	0
70	Pushta		25	11	4	0	10	0	3	100	0
71	Qala-e-Dahbashi		16	11	5	2	1	0	1	0	100
72	Qala-e-Halim		60	9	5	20	12	2	6	100	0
73	Qala-e-Sarsang		100	12	5	0	7	1	5	100	0
74	Qala-e-Sayedan		70	15	4	0	10	0	5	0	100
75	Qala-e-Zargar		14	11	5	15	3	2	0	100	0
76	Qala-e-Arjal		32	10	3	0	0	0	4	60	40
77	Rabat	Rabat	107	9	3	0	3	0	9	100	0
78	Rabat	Shah-e-Qadam	25	9	4	0	6	0	3	100	0
79	Sadat Khel		35	10	5	0	0	0	5	100	0
80	Saidan	Mashayan	11	10	4	0	0	0	0	100	0
81	Saparai		50	15	6	6	10	4	6	100	0
82	Sarkary Qala		50	16	3	0	1	0	0	100	0
83	Sepahi Khel		16	8	3	40	0	0	4	100	0
84	Shahr-e-Naw		80	12	5	0	8	0	6	100	0
85	Shekhan		30	11	6	4	1	0	0	100	0
86	Shekhan		300	6	3	30	28	22	5	0	100
87	Shekhan		45	12	7	0	4	2	8	100	0
88	Talbi Khel		6	10	5	0	1	0	0	100	0
89	Teray	Azad Khan Khel	9	9	3	3	2	0	1	100	0

Appendix B: Population of Gardez district (Cont..)

S/No.	Main village	Sub village	Total No. of families	Avg. No/family		Number of				% Ethnic groups	
				people	children	nomad families	disabled male	disabled female	widows	Pushtun	Tajik
90	Teray	Bagho Kalay	4	10	5	0	0	0	0	100	0
91	Teray	Charmakhkay	17	14	6	0	1	0	1	100	0
92	Teray	Fazal Qala	13	8	4	3	0	0	0	100	0
93	Teray	Ghafur Khel	27	12	5	0	2	0	1	100	0
94	Teray	Kuz Lewan	7	15	6	10	2	1	2	100	0
95	Teray	Lewanian	15	9	4	0	1	0	0	100	0
96	Teray	Lewan	27	13	6	0	4	0	3	100	0
97	Teray	Momin Khel	74	12	5	5	3	4	4	100	0
98	Teray	Nawrakay	6	10	4	8	0	1	0	100	0
99	Teray	Samad Khel	7	10	4	5	1	0	0	100	0
100	Teray	Spina Qala	14	9	3	2	2	0	3	100	0
101	Teray	Sra Qala	16	9	3	0	0	3	3	100	0
102	Teray	Tandan	151	10	4	0	2	2	3	100	0
103	Teray	Tarkanan	116	14	6	0	12	0	20	100	0
104	Teray	Woch Khakh	14	13	6	5	0	1	2	100	0
105	Utmanay		10	11	6	2	2	1	1	100	0
106	Woch Gharak		50	12	6	0	0	2	8	100	0
107	Zawa		20	12	6	100	4	8	1	100	0

Appendix B1: Population of Sayed Karam district

S/No.	Main village	Sub village	Total No. of families	Avg. No/family		Number of				% Ethnic groups	
							disabled				
				people	children	nomad families	male	female	widows	Pushtun	Tajik
1	Ahmad Shah Khel		23	11	4	5	2	0	0	100	0
2	Andwam		400	12	3	0	20	0	10	100	0
3	Arab Khel		15	9	3	0	1	0	1	100	0
4	Ashpan		25	10	4	0	7	0	0	100	0
5	Bar Sejenak		200	11	5	0	6	2	7	100	0
6	Bar Sejenak	Alamgay	7	10	3	0	5	0	1	100	0
7	Batyan Khel		4	10	4	0	0	0	0	100	0
8	Cher Rakay		45	12	3	0	10	2	1	100	0
9	Chino	Chino	120	10	4	20	10	0	5	100	0
10	Chino	Chino Sar	60	13	6	70	10	12	8	100	0
11	Chino	Durrani	100	10	4	20	8	0	0	100	0
12	Dam	Ayubi	124	10	5	30	5	5	12	100	0
13	Dam	Khogory	36	10	4	0	4	3	3	100	0
14	Dam	Mir Ali Khel	50	10	5	25	10	0	6	100	0
15	Dawlat Khel		50	11	4	0	0	0	0	100	0
16	Gharak	Talkhan	31	14	7	30	4	1	5	100	0
17	Ghonday		50	9	5	10	12	0	8	100	0
18	Ghwareza		10	12	7	40	2	1	5	100	0
19	Gud Mangal Qala		150	12	6	0	2	11	0	100	0
20	Isa Khel		300	12	7	20	52	15	25	100	0
21	Jangi Khel		15	10	5	0	2	1	0	100	0
22	Kalgar	Mohd Amin Khel	22	10	3	0	1	0	0	100	0
23	Kamran Khel		76	10	4	0	5	3	4	100	0
24	Karezgay		100	12	4	0	10	2	8	100	0
25	Kerkin	Gorandi Shekhan	70	11	3	0	1	0	3	100	0
26	Kerkin	Jan Ghunday	50	13	6	0	4	1	1	100	0
27	Kerkin	Selarai	110	10	5	0	10	3	9	100	0
28	Kerkin	Sru Kholeh	160	12	4	0	6	1	3	100	0
29	Kerkin	Sur Petaw	50	10	4	0	4	0	2	100	0
30	Kerkin	Wocha Lagada	50	11	4	0	0	1	1	100	0

Appendix B1: Population of Sayed Karam district (Cont..)

S/No.	Main village	Sub village	Total No. of families	Avg. No/family		Number of				% Ethnic groups	
				people	children	nomad families	disabled male	disabled female	widows	Pushtun	Tajik
31	Kerkin Kholeh		100	12	5	0	10	0	1	100	0
32	Khanak Khel		35	10	5	0	2	0	5	100	0
33`	Khand Khel	Khand Khel	300	9	3	0	100	0	10	100	0
34	Khand Khel	Lalak Kalay	16	12	6	0	3	0	0	100	0
35	Khawajar Khel		40	11	5	0	5	2	10	100	0
36	Kosin	Bar Khano Khel	50	11	4	0	6	1	4	100	0
37	Kosin	Gorgori Qala	18	10	4	0	0	0	0	100	0
38	Kosin	Kalgar	350	11	3	0	8	4	5	100	0
39	Kosin	Khoshal Khel	80	12	5	0	6	4	2	100	0
40	Kosin	Kuz Khano Khel	150	12	4	0	10	4	8	100	0
41	Kosin	Masak Karez	25	12	5	6	0	0	4	100	0
42	Kosin	Shayasta Kalay	21	14	6	16	1	0	1	100	0
43	Kosin	Shekhan	40	10	4	0	1	0	0	100	0
44	Kotkay		50	8	3	0	6	0	4	100	0
45	Koz Feroz Khel		60	12	4	0	6	3	10	100	0
46	Kunder Khel		48	11	4	0	6	1	2	100	0
47	Kuz Sejenak	Kuz Sejenak	95	10	6	0	9	5	0	100	0
48	Kuz Sejenak	Tarai	20	12	5	0	0	0	2	100	0
49	Machal Ghu	Akbar Khel	7	15	4	0	2	0	2	100	0
50	Machal Ghu	Babakrey	10	9	5	10	1	2	0	100	0
51	Machal Ghu	Bazu Khel	47	13	7	0	3	4	18	100	0
52	Machal Ghu	Gandir Khel	25	10	5	0	1	0	0	100	0
53	Machal Ghu	Godian	48	14	6	20	7	1	6	100	0
54	Machal Ghu	Hassan Qala	25	10	5	3	2	0	2	100	0
55	Machal Ghu	Lewan	41	10	4	0	0	0	3	100	0
56	Machal Ghu	Mado Khel	33	16	6	0	3	1	5	100	0
57	Machal Ghu	Mamozai	40	12	6	0	10	1	2	100	0
58	Machal Ghu	Mulla Khel	45	14	8	20	8	2	8	100	0
59	Machal Ghu	Nagram	22	15	7	0	3	0	3	100	0
60	Machal Ghu	Nandar Khel	30	10	5	0	0	0	1	100	0

Appendix B1: Population of Sayed Karam district (Cont..)

S/No.	Main village	Sub village	Total No. of families	Avg. No/family people	Avg. No/family children	Number of nomad families	Number of disabled male	Number of disabled female	Number of widows	% Ethnic groups Pushtun	% Ethnic groups Tajik
61	Machal Ghu	Nora Khel	60	12	4	0	10	7	5	100	0
62	Machal Ghu	Pala Khel	21	12	6	0	0	0	2	100	0
63	Machal Ghu	Salim Khan Khel	50	15	6	0	0	2	3	100	0
64	Machal Ghu	Sayed Khel	42	10	4	20	10	0	7	100	0
65	Machal Ghu	Spina Qala	65	15	7	10	15	0	8	100	0
66	Machal Ghu	Taro Khel	150	15	7	0	7	3	4	100	0
67	Machal Ghu	Toor Khel	30	12	5	0	4	0	1	100	0
68	Machal Ghu	Wach Khakh Qala	12	8	4	6	1	1	1	100	0
69	Mawroz Khel		31	13	5	0	7	6	8	100	0
70	Merzaka	Azad Khel	55	14	5	0	2	1	1	100	0
71	Merzaka	Batay	300	12	6	0	12	4	5	100	0
72	Merzaka	Chanjay Khwar	78	11	4	0	4	0	2	100	0
73	Merzaka	Chungay	15	12	5	0	0	1	0	100	0
74	Merzaka	Garamay	50	9	3	0	2	0	0	100	0
75	Merzaka	Ghonzay	120	11	3	0	5	2	2	100	0
76	Merzaka	Hajian	80	11	4	0	3	1	4	100	0
77	Merzaka	Kajeray	80	12	4	0	0	0	8	100	0
78	Merzaka	Khalilan	70	9	3	0	12	0	2	100	0
79	Merzaka	Nora China	20	9	5	0	3	0	5	100	0
80	Merzakay	Serkay Tanga	30	10	4	0	1	0	2	100	0
81	Mia Khel		3	12	5	0	0	0	1	100	0
82	Naray Kalay		2	11	4	15	2	1	0	100	0
83	Nigram	Ainuddin Qala	6	10	3	0	0	0	0	100	0
84	Osman Khel	Mach	50	11	5	5	3	0	0	100	0
85	Osman Khel	Raza Khel	21	10	5	2	4	1	3	100	0
86	Qader Khel		80	11	6	0	8	3	6	100	0
87	Shamsherabad		70	9	4	0	4	2	3	100	0
88	Salam Khel	Afzal Khel	75	11	4	20	5	3	6	100	0
89	Salam Khel	Bike Khel	20	10	4	0	0	0	2	100	0
90	Salam Khel	Salu Khel	21	11	4	0	3	0	2	100	0

Appendix B1: Population of Sayed Karam district (Cont..)

S/No.	Main village	Sub village	Total No. of families	Avg. No/family people	Avg. No/family children	Number of nomad families	Number of disabled male	Number of disabled female	Number of widows	% Ethnic groups Pushtun	% Ethnic groups Tajik
91	Salam Khel	Sra Qala	30	12	7	0	5	2	2	100	0
92	Salam Khel	Sur Sang	30	11	6	80	10	2	6	100	0
93	Salemi Nargay		22	12	6	0	3	1	1	100	0
94	Sarwar Qala		10	9	3	20	0	0	0	100	0
95	Sayed Khel		98	11	7	0	15	3	6	100	0
96	Serkay Malang		25	10	3	8	0	2	1	100	0
97	Sham Ghunday		23	10	5	0	0	0	2	100	0
98	Spina Qala		55	14	7	0	12	3	4	100	0
99	Sur Sangyan		8	10	3	0	0	0	1	100	0
100	Talbi Khel		25	10	5	0	5	0	4	100	0
101	Tand Gharak	Ataei Qala	13	7	4	0	1	0	2	100	0
102	Tand Gharak	Fazal Khel	62	10	7	0	4	2	10	100	0
103	Tand Gharak	Miw Khel	13	12	7	0	1	1	1	100	0
104	Tand Gharak	Seway	11	10	6	10	2	1	2	100	0
105	Tand Gharak	Zundi Khel	44	15	7	8	8	0	4	100	0
106	Usman Khel	Esa Khel	50	11	4	0	1	0	7	100	0
107	Usman Khel	Lewanian Khel	48	11	5	0	10	5	3	100	0
108	Yahya Khel		9	12	5	2	1	0	1	100	0
109	Yargul Khel		15	9	3	0	0	0	1	100	0

2. GENERAL INFORMATION

2.1 Population

The survey results indicate that there are a total of 12,346 families living in 218 surveyed villages of Gardez and Sayed Karam districts. The average family size contained 11 people out of which five were found to be children. Thus the total population of the surveyed area can be estimated at 135,806 people. 65% of the villages reported the regular visiting of 1,392 nomad families to the surveyed area. Awdakay village of Gardez district was the village in which the maximum number of nomad families (150) were reported. A total of 1,273 disable people and 727 widows were reported in the surveyed villages. In term of ethnic group, 91% of the people living in Gardez are Pushtun and 9% are Tajek. While all people living in Sayed Karam district are Pushtun (see Table 2.1, Figure 2.1-2.2 and Appendix B-B1).

Table 2.1: Population

District	No. of villages surveyed	Total No. of families	% of villages having nomads	nomad families	Disable		No. of widows
					Male	Female	
Gardez	109	5674	38	841	387	100	320
Sayed Karam	109	6672	27	551	637	149	407

Figure 2.1: Distribution of people per household in Gardez

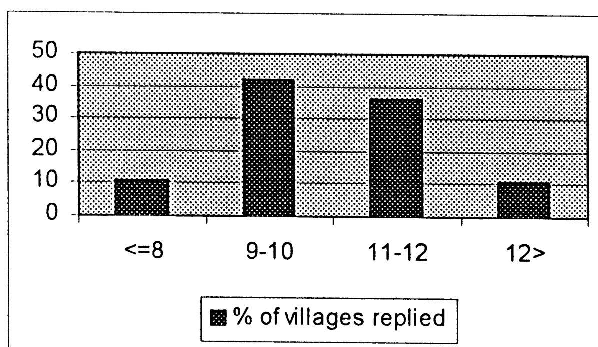
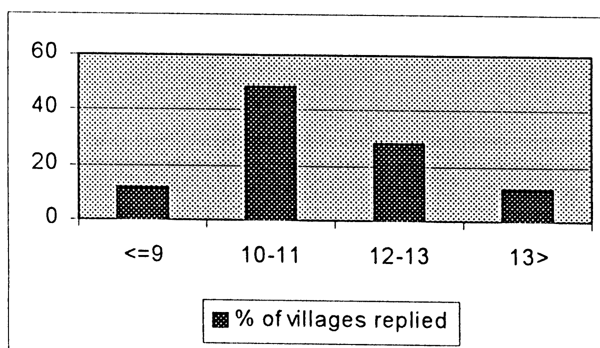


Figure 2.2: Distribution of people per household in Sayed Karam



Appendix C: Repatriation in Gardez Karam district

S/No	Main village	Sub village	No. of families before ware	No. of families never been refugee or displaced	No. of returned families			No. of families from other village	No. of families still refugee	No. of families still displaced
					completely	partially	total			
1	Ahangaran		100	70	15	0	15	15	50	15
2	Asalatbeg		40	4	17	2	19	2	65	0
3	Atam Kalay		30	5	14	0	14	1	20	0
4	Awdakay		500	0	260	0	260	0	400	0
5	Bala Deh	Afzal Khel	60	129	6	0	6	0	10	0
6	Bala Deh	Bala Deh	80	200	70	0	70	0	20	15
7	Bala Deh	Raies Khel	50	100	30	0	30	0	8	8
8	Bala Deh	Rodak	30	10	34	5	39	1	5	0
9	Banozai	Bano zai	320	0	0	15	15	0	400	0
10	Banozai	Darabal Kalay	31	0	15	2	17	1	47	0
11	Banozai	Salar Kalay	14	0	0	0	0	2	60	0
12	Chakan Shekhan		20	1	0	4	4	0	40	4
13	Chawanay	Metran Khel	40	10	10	16	26	1	19	2
14	Chawanay	Pahlawan Khel	40	0	75	0	75	0	6	0
15	Chawanay	Rabati	30	0	60	0	60	0	40	0
16	Dara		400	0	5	60	65	0	1000	3
17	Dawlatzai	Habib Khel	70	4	22	0	22	4	90	0
18	Dawlatzai	Laghar	30	4	16	0	16	0	40	0
19	Dawlatzai	Ali Jan Khel	13	6	7	0	7	0	12	3
20	Dawlatzai	Dray Plari	15	0	12	0	12	0	15	0
21	Dawlatzai	Fathullah	25	0	15	15	30	4	35	2
22	Dawlatzai	Gadai Khel	30	0	3	0	3	2	55	1
23	Dawlatzai	Gajan	15	0	20	0	20	0	40	0
24	Dawlatzai	Ghunday Kalay	40	0	70	30	100	0	50	0
25	Dinar Khel		40	0	65	0	65	0	20	0
26	Doghabad		28	16	28	0	28	1	1	0
27	Golo Khel		14	6	10	0	10	1	20	0
28	Golo wall	Bar Golowall	24	16	6	0	6	2	0	0
29	Golo wall	Kuz Golowall	15	3	13	0	13	0	8	0
30	Hemat Khel		15	4	8	0	8	0	15	0

Appendix C: Repatriation in Gardez Karam district (Cont..)

S/No	Main village	Sub village	No. of families before ware	No. of families never been refugee or displaced	No. of returned families completely	partially	total	No. of families from other village	No. of families still refugee	No. of families still displaced
31	Ibrahim Khel	Azami Khel	20	0	12	2	14	0	20	0
32	Ibrahim Khel	Bada Khel	80	0	25	0	25	0	90	0
33	Ibrahim Khel	Ghani Qala	20	0	9	0	9	0	42	0
34	Ibrahim Khel	Karama Khel	60	0	40	10	50	0	70	0
35	Ibrahim Khel	Mashad Khel	45	1	19	4	23	0	48	0
36	Ibrahim Khel	Pakhary	20	0	15	0	15	0	30	0
37	Ibrahim Khel	Pirzad Khel	25	0	45	0	45	0	25	0
38	Ibrahim Khel	Rahmat Khel	27	0	21	4	25	0	45	0
39	Ibrahim Khel	Raza Khel	10	0	6	2	8	0	9	0
40	Ibrahim Khel	Zadiq Khel	40	0	50	10	60	0	58	2
41	Ibrahim Khel	Sarwar Khel	20	0	20	0	20	0	40	0
42	Ibrahim Khel	Tabiban	13	0	4	3	7	0	10	0
43	Ibrahim Khel	Tan Khan Khel	80	0	18	0	18	1	60	0
44	Ibrahim Khel	Walyan	60	0	17	0	17	0	83	3
45	Karmashi		160	215	10	0	10	15	20	0
46	Khan Qala		25	0	19	0	19	0	30	0
47	Khataba	Sadiq Khel	100	15	110	0	110	0	20	6
48	Khataba	Shakar Khel	90	80	69	0	69	1	30	10
49	Khataba	Shekhano Qala	40	42	9	0	9	0	7	1
50	Khwaja Hassan	Khwaja Hassan Ulya	130	207	25	0	25	18	40	20
51	Khwaja Hassan	Khwaja Hassan Sufla	125	230	10	0	10	20	15	0
52	Kochi Khel		80	130	18	0	18	2	30	10
53	Kwash	Azgana	45	0	45	0	45	0	40	0
54	Kwash	Bar Kwash	30	0	25	0	25	0	40	0
55	Kwash	Koz Kwash	30	0	25	0	25	0	50	0
56	Kwash	Pakhari	15	0	1	0	1	0	30	0
57	Mahmud Qala		25	25	10	0	10	0	20	0
58	Malik Khel		50	40	33	0	33	7	40	10
59	Melan	Doaba	90	0	35	0	35	15	135	0
60	Melan	Habib Qala	80	10	30	0	30	6	110	0

Appendix C: Repatriation in Gardez Karam district (Cont..)

S/No	Main village	Sub village	No. of families before ware	No. of families never been refugee or displaced	No. of returned families			No. of families from other village	No. of families still refugee	No. of families still displaced
					completely	partially	total			
61	Melan	Hajiaano Kalay	45	0	49	0	49	1	60	1
62	Melan	Melan	170	0	50	0	50	0	225	0
63	Melan	Shekhan	110	0	0	5	5	3	160	5
64	Mia Noor Qala		60	2	22	0	22	2	120	0
65	Mohd Raza Khel		40	0	8	0	8	0	45	0
66	Mumray		40	0	16	0	116	4	14	0
67	Niazi Qala		50	18	52	0	52	0	50	0
68	Nisti Kot	Kuz Nistikot	4	2	5	0	5	1	2	0
69	Nistikot	Bar Nistikot	80	30	19	0	19	1	75	0
70	Pushta		15	2	23	0	23	0	1	0
71	Qala-e-Arjal		18	0	30	0	30	2	6	0
72	Qala-e-Dahbashi		6	0	13	0	13	3	8	0
73	Qala-e-Halim		42	4	56	0	56	0	40	0
74	Qala-e-Sarsang		60	20	75	0	75	5	40	0
75	Qala-e-Sayedan		55	20	50	0	50	0	60	20
76	Qala-e-Zargar		8	0	7	0	7	7	0	5
77	Rabat	Rabat	65	62	45	0	45	0	14	0
78	Rabat	Shah-e-Qadam	14	9	16	0	16	0	7	0
79	Sadat Khel		35	30	5	0	5	0	18	0
80	Saidan	Mashayan	5	6	3	0	3	2	3	0
81	Saparai		80	0	49	0	49	1	70	10
82	Sarkary Qala		73	0	50	0	50	0	150	0
83	Sepahi Khel		90	0	16	0	16	0	190	0
84	Shahr-e-Naw		50	10	65	0	65	5	25	0
85	Shekhan		3	0	29	1	30	0	1	0
86	Shekhan		100	80	180	20	200	20	80	20
87	Shekhan		30	15	30	0	30	0	0	10
88	Talbi Khel		8	2	4	0	4	0	16	0
89	Teray	Azad Khan Khel	30	0	9	0	9	0	70	10
90	Teray	Bagho Kalay	100	0	4	0	4	0	140	0

Appendix C: Repatriation in Gardez Karam district (Cont..)

S/No	Main village	Sub village	No. of families before ware	No. of families never been refugee or displaced	No. of returned families: completely	partially	total	No. of families from other village	No. of families still refugee	No. of families still displaced
91	Teray	Charmakhkay	25	13	2	0	2	2	20	0
92	Teray	Fazal Qala	20	0	13	0	13	0	40	10
93	Teray	Ghafur Khel	60	0	27	0	27	0	120	20
94	Teray	Kuz Lewan	14	2	5	0	5	0	16	0
95	Teray	Lewanian	45	3	9	0	9	3	70	0
96	Teray	Lewan	70	10	15	0	15	2	130	0
97	Teray	Momin Khel	65	11	59	0	59	4	70	0
98	Teray	Nawrakay	60	2	4	0	4	0	85	0
99	Teray	Samad Khel	20	0	7	0	7	0	33	0
100	Teray	Spina Qala	60	0	11	0	11	3	100	3
101	Teray	Sra Qala	30	8	8	0	8	0	50	0
102	Teray	Tandan	60	0	150	0	150	1	20	0
103	Teray	Tarkanan	30	3	113	0	113	0	50	50
104	Teray	Woch Khakh	12	0	14	0	14	0	16	0
105	Utmanay		15	0	8	0	8	2	20	0
106	Woch Gharak		95	0	45	5	50	0	180	0
107	Zawa		500	0	20	0	20	0	750	0

Appendix C1: Repatriation in Sayed Karam district

S/No	Main village	Sub village	No. of families before ware	No. of families never been refugee or displaced	No. of returned families			No. of families from other villages	No. of families still refugee	No. of families still displaced
					completely	partially	total			
1	Ahmad Shah Khel		17	10	12	1	13	0	18	0
2	Andwam		200	10	380	0	380	10	40	10
3	Arab Khel		15	2	13	0	13	0	19	0
4	Ashpan		35	2	12	7	19	4	40	6
5	Bar Sejenak		210	10	168	20	188	2	100	40
6	Bar Sejenak	Alamgay	10	0	7	0	7	0	15	0
7	Batyan Khel		6	0	4	0	4	0	8	3
8	Cher Rakay		30	0	45	0	45	0	12	15
9	Chino	Chino	70	30	85	0	85	5	50	0
10	Chino	Chino sar	63	0	60	0	60	0	40	0
11	Chino	Durrani	75	80	15	5	20	0	50	0
12	Dam	Ayubi	115	4	120	0	120	0	60	10
13	Dam	Khogory	47	0	34	1	35	1	50	15
14	Dam	Mir Ail Khel	30	4	46	0	46	0	50	0
15	Dawlat Khel		30	12	38	0	38	0	15	0
16	Gharak	Talkhan	30	7	24	0	24	0	40	0
17	Ghonday		40	2	48	0	48	0	20	10
18	Ghwareza		45	0	10	0	10	0	80	5
19	Gud Mangal Qala		90	80	70	0	70	0	30	0
20	Isa Khel		280	80	210	0	210	10	70	30
21	Jangi Khel		40	0	15	0	15	0	35	3
22	Kalgar	Mohd Amin Khel	30	0	18	3	21	1	45	0
23	Kamran Khel		55	10	55	6	61	5	40	0
24	Karezgay		90	10	90	0	90	0	60	5
25	Kerkin	Gorandi Shekhan	40	3	62	0	62	5	20	0
26	Kerkin	Jan Ghunday	30	15	34	0	34	1	1	1
27	Kerkin	Selarai	80	40	67	0	67	3	0	10
28	Kerkin	Sru Kholeh	100	40	118	0	118	2	2	0
29	Kerkin	Sur Petaw	60	10	40	0	40	0	25	10
30	Kerkin	Wocha Lagada	30	4	40	4	44	2	2	1

Appendix C1: Repatriation in Sayed Karam district (Cont..)

S/No	Main village	Sub village	No. of families before ware	No. of families never been refugee or displaced	No. of returned families			No. of families from other villages	No. of families still refugee	No. of families still displaced
					completely	partially	total			
31	Kerkin Kholeh		85	60	33	0	33	7	2	8
32	Khanak Khel		32	30	5	0	5	0	15	10
33	Khand Khel	Khand Khel	600	0	150	144	294	6	2000	50
34	Khand Khel	Lalak Kalay	12	0	16	0	16	0	15	2
35	Khawajar Khel		60	0	40	0	40	0	50	0
36	Kosin	Bar Khano Khel	130	0	40	5	45	5	200	0
37	Kosin	Gorgori Qala	21	0	17	0	17	1	20	3
38	Kosin	Kalgar	220	20	230	100	330	0	360	40
39	Kosin	Khoshal Khel	200	0	60	10	70	10	500	20
40	Kosin	Kuz Khano Khel	120	0	130	15	145	5	80	20
41	Kosin	Masak Karez	45	0	25	0	25	0	60	10
42	Kosin	Shayasta Kalay	11	0	20	1	21	0	13	1
43	Kosin	Shekhan	33	0	30	10	40	0	15	1
44	Kotkay		90	4	42	0	42	4	150	0
45	Koz Feroz Khel		42	8	52	0	52	0	30	0
46	Kunder Khel		50	40	5	3	8	0	45	0
47	Kuz Sejenak	Kuz Sejenak	60	0	90	2	92	3	100	8
48	Kuz Sejenak	Tarai	40	0	20	0	20	0	10	28
49	Machal Ghu	Akbar Khel	12	0	5	0	5	2	25	0
50	Machal Ghu	Babakrey	30	0	7	3	10	0	40	0
51	Machal Ghu	Bazu Khel	60	0	42	0	42	5	84	0
52	Machal Ghu	Gandir Khel	20	5	20	0	20	0	20	5
53	Machal Ghu	Godian	40	18	28	0	28	2	30	0
54	Machal Ghu	Hassan Qala	40	0	22	0	22	3	40	0
55	Machal Ghu	Lewan	34	0	41	0	41	0	0	0
56	Machal Ghu	Mado Khel	40	2	30	0	30	1	55	0
57	Machal Ghu	Mamozai	80	10	30	0	30	0	100	0
58	Machal Ghu	Mulla Khel	120	12	6	27	33	0	70	20
59	Machal Ghu	Nagram	24	0	22	0	22	0	21	0
60	Machal Ghu	Nandar Khel	50	0	27	0	27	3	50	0

Appendix C1: Repatriation in Sayed Karam district (Cont..)

S/No	Main village	Sub village	No. of families before ware	No. of families never been refugee or displaced	No. of returned families completely	partially	total	No. of families from other villages	No. of families still refugee	No. of families still displaced
61	Machal Ghu	Nora Khel	100	0	60	0	60	0	70	0
62	Machal Ghu	Pala Khel	20	15	6	0	6	0	22	0
63	Machal Ghu	Salim Khan Khel	40	0	42	8	50	0	8	0
64	Machal Ghu	Sayed Khel	30	0	42	0	42	0	18	0
65	Machal Ghu	Spina Qala	40	3	62	0	62	0	20	0
66	Machal Ghu	Taro Khel	150	20	130	0	130	0	100	0
67	Machal Ghu	Toor Khel	20	0	30	0	30	0	6	0
68	Machal Ghu	Wach Khakh Qala	8	0	12	0	12	0	2	0
69	Mawroz Khel		60	0	30	0	30	1	50	0
70	Merzaka	Azad Khel	30	5	45	0	45	5	10	8
71	Merzaka	Batay	200	150	150	0	150	0	80	20
72	Merzaka	Chanjay Khwar	35	0	70	8	78	0	0	20
73	Merzaka	Chungay	14	0	15	0	15	0	5	6
74	Merzaka	Garamay	35	0	47	0	47	3	23	0
75	Merzaka	Ghonzay	55	25	85	10	95	0	34	11
76	Merzaka	Hajian	50	10	70	0	70	0	40	0
77	Merzaka	Kajeray	70	0	70	10	80	0	30	10
78	Merzaka	Khalilan	50	10	60	0	60	0	10	10
79	Merzaka	Nora China	25	0	20	0	20	0	16	16
80	Merzakay	Serkay Tanga	10	0	30	0	30	0	1	0
81	Mia Khel		17	0	3	0	3	0	36	0
82	Naray Kalay		6	0	2	0	2	0	16	0
83	Nigram	Ainuddin Qala	5	0	5	1	6	0	12	0
84	Osman Khel	Mach	150	4	43	0	43	3	200	15
85	Osman Khel	Raza Khel	60	5	15	0	15	1	150	0
86	Qader Khel		90	30	48	0	48	2	78	0
87	Shamsherabad		40	30	40	0	40	0	16	0
88	Salam Khel	Afzal Khel	60	10	61	3	64	1	32	0
89	Salam Khel	Bike Khel	16	0	20	0	20	0	12	0
90	Salam Khel	Salu Khel	20	5	15	0	15	1	25	0

Appendix C1: Repatriation in Sayed Karam district (Cont..)

S/No	Main village	Sub village	No. of families before ware	No. of families never been refugee or displaced	No. of returned families			No. of families from other villages	No. of families still refugee	No. of families still displaced
					completely	partially	total			
91	Salam Khel	Sra Qala	20	12	17	0	17	1	15	2
92	Salam Khel	Sur Sang	25	14	14	0	14	2	18	5
93	Salemi Nargay		42	0	7	15	22	0	20	8
94	Sarwar Qala		15	0	10	0	10	0	18	0
95	Sayed Khel		65	48	50	0	50	0	30	10
96	Serkay Malang		15	6	19	0	19	0	14	0
97	Sham Ghunday		40	0	19	0	19	4	30	5
98	Spina Qala		62	10	45	0	45	0	60	5
99	Sur Sangyan		15	3	5	0	5	0	25	0
100	Talbi Khel		30	0	25	0	25	0	15	2
101	Tand Gharak	Ataei Qala	8	0	13	0	13	0	6	0
102	Tand Gharak	Fazal Khel	50	0	55	0	55	7	120	4
103	Tand Gharak	Miw Khel	30	0	12	0	12	1	35	0
104	Tand Gharak	Seway	8	0	11	0	11	0	20	20
105	Tand Gharak	Zundi Khel	100	0	40	0	40	4	300	0
106	Usman Khel	Esa Khel	43	0	50	0	50	0	70	0
107	Usman Khel	Lewanian Khel	220	10	38	0	38	0	500	0
108	Yahya Khel		20	0	9	0	9	0	22	0
109	Yargul Khel		10	6	9	0	9	0	17	1

Appendix D: Repatriation problems in Gardez district

S/No	Main village	Sub village	Main problems in returning of refugees: A	B	C	D	E	F	G	H
1	Ahangaran		√	√	√	-	-	-	-	-
2	Asalatbeg		√	-	√	-	-	-	√	-
3	Atam Kalay		√	√	-	-	-	-	√	-
4	Awdakay		√	√	√	-	-	-	√	-
5	Bala Deh	Afzal Khel	√	√	√	-	-	-	-	-
6	Bala Deh	Bala Deh	-	√	√	-	-	-	-	-
7	Bala Deh	Raies Khel	-	√	√	-	-	-	-	-
8	Bala Deh	Rodak	√	-	√	-	-	-	-	-
9	Banozai	Bano zai	√	-	-	-	-	-	√	-
10	Banozai	Darabal Kalay	√	-	√	-	-	√	√	-
11	Banozai	Salar Kalay	√	√	-	-	-	-	√	-
12	Chakan Shekhan		√	√	-	-	-	-	√	-
13	Chawanay	Metran Khel	-	√	-	-	-	-	-	-
14	Chawanay	Pahlawan Khel	√	-	-	-	-	-	√	-
15	Chawanay	Rabati	√	-	√	-	-	-	√	-
16	Dara		√	-	-	-	-	√	√	-
17	Dawlatzai	Habib Khel	√	-	-	-	-	-	√	-
18	Dawlatzai	Laghar	√	-	-	-	-	-	√	-
19	Dawlatzai	Ali Jan Khel	√	√	-	-	-	-	√	-
20	Dawlatzai	Dray Plari	√	√	-	-	-	-	√	-
21	Dawlatzai	Fathullah	√	-	√	-	-	-	√	-
22	Dawlatzai	Gadai Khel	-	-	√	-	-	-	-	-
23	Dawlatzai	Gajan	-	-	-	-	-	-	√	Lack of girls school
24	Dawlatzai	Ghunday Kalay	√	√	√	-	-	-	√	-
25	Dinar Khel		√	√	√	-	-	-	√	-
26	Doghabad		-	-	√	-	-	-	-	-

Appendix D: Repatriation problems in Gardez district (Cont..)

S/No	Main village	Sub village	Main problems in returning of refugees							
			A	B	C	D	E	F	G	H
27	Golo Khel		√	√	√	-	-	-	√	-
28	Golowall	Bar Golowall	-	-	-	-	-	-	-	-
29	Golowall	Kuz Golowall	√	√	√	-	-	-	√	-
30	Hemat Khel		√	√	√	-	-	-	√	-
31	Ibrahim Khel	Azami Khel	√	√	√	-	-	-	√	-
32	Ibrahim Khel	Bada Khel	√	-	√	-	-	-	√	-
33	Ibrahim Khel	Ghani Qala	√	-	√	-	-	-	√	-
34	Ibrahim Khel	Karama Khel	√	-	√	-	-	-	√	-
35	Ibrahim Khel	Mashad Khel	√	√	√	-	-	-	-	-
36	Ibrahim Khel	Pakhary	√	-	√	-	-	-	√	-
37	Ibrahim Khel	Pirzad Khel	√	-	√	-	-	-	√	-
38	Ibrahim Khel	Rahmat Khel	√	-	√	-	-	√	√	-
39	Ibrahim Khel	Raza Khel	√	-	√	-	-	-	√	-
40	Ibrahim Khel	Sadiq Khel	√	√	√	-	-	-	√	-
41	Ibrahim Khel	Sarwar Khel	√	-	√	-	-	-	√	-
42	Ibrahim Khel	Tabiban	√	-	-	-	-	-	√	-
43	Ibrahim Khel	Tan Khan Khel	√	-	√	-	-	-	√	-
44	Ibrahim Khel	Walyan	√	-	√	-	-	-	√	-
45	Karmashi		√	-	√	-	-	-	-	Lack of land
46	Khan Qala		√	-	√	-	-	-	√	Lack of school
47	Khataba	Sadiq Khel	√	-	√	-	-	√	√	-
48	Khataba	Shakar Khel	√	√	√	-	-	-	√	-
49	Khataba	Shekhano Qala	√	-	√	-	-	√	√	-
50	Khwaja Hassan	Khwaja Hassan Ulya	√	-	√	-	-	-	√	-
51	Khwaja Hassan	Khwaja Hassan Sufla	√	-	√	-	-	-	-	-
52	Kochi Khel		-	√	√	-	-	-	-	-
53	Kwash	Azgana	√	-	√	-	-	-	√	-

2.2 Repatriation

The survey estimated that a total of 13,208 families were living in the surveyed area before war. The data has revealed that 3,055 families have never been refugee or displaced. A total of 8,949 families have returned to the survey area, however, 15,073 families have still not returned from neighboring countries at the time of the survey. In terms of IDPs, 857 families were reported to still be living in other parts of Afghanistan. The secure situation plus proper condition for cultivation enticed 5,445 families to come to the surveyed areas from different parts of Afghanistan (see Table 2.2 and Appendix C-C1).

Table 2.2: Repatriation

district	No. of villages surveyed	Number of families							
		In the Village before war	Never been refugee or displaced	Have returned			Still		From other village
				completely	partially	Total	refugee	displaced	
Gardez	109	6490	1950	3311	215	3526	7379	279	198
Sayed Karam	109	6718	1105	5001	422	5423	7694	578	144

The lack of houses and employment opportunities were the two main problems cited for the successful repatriation of refugees and IDPs. Damaged irrigation system and lack of food were estimated the third and fourth major problems in the area surveyed. A total of 28 villages replied that the collective problems of lack of clinics, schools, drinking water, wells and land and the existence of land mines were the main problems hindering the repatriation process. Abandoned arable land was considered less important for successful repatriation (see Table 2.3 and Appendix D-D1).

Table 2.3: Repatriation problems

District	No. of villages surveyed	Lack of				Fighting	Abandoned arable land	Damaged irrigation system	Other
		houses	food	employment	security				
Gardez	109	96	52	92	0	0	7	75	8
Sayed Karam	109	101	60	89	0	0	4	65	20

<u>List of List of others</u>

Lack of drinking water
Lack of clinic
Lack of school
Lack of land
Lack of roads
Land mines
Lack of well
Land damaged by flood

Appendix D: Repatriation problems in Gardez district (Cont..)

S/No	Main village	Sub village	Main problems in returning of refugees							
			A	B	C	D	E	F	G	H
54	Kwash	Bar Kwash	√	-	√	-	-	-	√	-
55	Kwash	Koz Kwash	√	√	-	-	-	-	√	-
56	Kwash	Pakhari	√	-	√	-	-	-	√	-
57	Mahmud Qala		√	√	√	-	-	-	√	-
58	Malik Khel		√	-	√	-	-	√	√	-
59	Melan	Doaba	√	-	√	-	-	-	√	-
60	Melan	Habib Qala	√	√	√	-	-	-	√	-
61	Melan	Hajiaano Kalay	√	√	√	-	-	-	-	-
62	Melan	Melan	√	√	√	-	-	-	√	-
63	Melan	Shekhan	√	√	√	-	-	-	-	-
64	Mia Noor Qala		√	-	√	-	-	-	√	-
65	Mohd Raza Khel		√	√	√	-	-	-	-	-
66	Mumray		√	-	√	-	-	-	-	-
67	Niazi Qala		√	-	√	-	-	-	-	-
68	Nisti Kot	Kuz Nistikot	-	-	√	-	-	-	√	-
69	Nistikot	Bar Nistikot	√	√	√	-	-	-	√	-
70	Pushta		√	-	√	-	-	-	-	-
71	Qala-e-Arjal		√	-	√	-	-	-	-	Lack of school
72	Qala-e-Dahbashi		√	-	√	-	-	-	√	-
73	Qala-e-Halim		√	√	√	-	-	-	√	-
74	Qala-e-Sarsang		√	-	√	-	-	-	-	-
75	Qala-e-Sayedan		√	√	√	-	-	-	-	-
76	Qala-e-Zargar		-	-	-	-	-	-	-	-
77	Rabat	Rabat	√	-	√	-	-	-	-	-
78	Rabat	Shah-e-Qadam	√	√	√	-	-	-	-	-
79	Sadat Khel		√	√	√	-	-	-	-	-
80	Saidan	Mashayan	-	-	√	-	-	-	-	-

Appendix D: Repatriation problems in Gardez district (Cont..)

S/No	Main village	Sub village	Main problems in returning of refugees							
			A	B	C	D	E	F	G	H
81	Saparai		√	-	√	-	-	-	√	-
82	Sarkary Qala		√	-	√	-	-	-	√	-
83	Sepahi Khel		√	-	√	-	-	√	√	-
84	Shahr-e-Naw		√	-	√	-	-	-	-	-
85	Shekhan		-	-	-	-	-	-	√	-
86	Shekhan		√	√	√	-	-	-	-	-
87	Shekhan		-	√	√	-	-	-	-	-
88	Talbi Khel		√	√	√	-	-	-	-	-
89	Teray	Azad Khan Khel	√	√	√	-	-	-	√	-
90	Teray	Bagho Kalay	√	√	√	-	-	-	√	-
91	Teray	Charmakhkay	√	√	√	-	-	-	√	-
92	Teray	Fazal Qala	√	-	√	-	-	-	√	-
93	Teray	Ghafur Khel	√	-	√	-	-	-	√	Land mines
94	Teray	Kuz Lewan	√	√	√	-	-	-	-	-
95	Teray	Lewanian	√	√	√	-	-	-	-	-
96	Teray	Lewan	√	√	√	-	-	-	√	-
97	Teray	Momin Khel	√	√	√	-	-	-	√	-
98	Teray	Nawrakay	√	√	√	-	-	-	√	-
99	Teray	Samad Khel	√	√	√	-	-	-	√	-
100	Teray	Spina Qala	√	√	√	-	-	-	√	Land damaged by flood
101	Teray	Sra Qala	√	√	√	-	-	-	√	-
102	Teray	Tandan	√	√	√	-	-	-	√	-
103	Teray	Tarkanan	√	-	√	-	-	-	√	-
104	Teray	Woch Khakh	√	√	√	-	-	-	√	Lack of drinking water

Appendix D: Repatriation problems in Gardez district (Cont..)

S/No	Main village	Sub village	Main problems in returning of refugees: A	B	C	D	E	F	G	H
105	Utmanay		√	√	√	-	-	-	-	-
106	Woch Gharak		√	√	√	-	-	-	√	-
107	Zawa		√	-	√	-	-	-	√	Lack of school

A= Lack of houses
B= Lack of food
C= Unemployment
D= Security
E= Fighting
F= Abandoned arable land
G= Damaged irrigation system
H= Other(specify)

Appendix D1: Repatriation problems in Sayed Karam district

S/No	Main village	Sub village	Main problems in returning of refugees							
			A	B	C	D	E	F	G	H
1	Ahmad Shah Khel		√	-	√	-	-	-	-	-
2	Andwam		√	√	√	-	-	-	√	-
3	Arab Khel		√	√	√	-	-	-	-	-
4	Ashpan		√	-	√	-	-	-	√	-
5	Bar Sejenak		√	-	√	-	-	-	√	Lack of clinic and school
6	Bar Sejenak	Alamgay	√	-	√	-	-	-	√	-
7	Batyan Khel		√	-	√	-	-	-	-	Lack of land
8	Cher Rakay		√	-	√	-	-	-	-	-
9	Chino	Chino	√	-	√	-	-	√	√	-
10	Chino	Chino Sar	√	√	√	-	-	-	-	-
10	Chino	Durrani	√	-	√	-	-	-	√	-
12	Dam	Ayubi	√	-	√	-	-	-	√	-
13	Dam	Khogory	√	-	-	-	-	√	√	-
14	Dam	Mir Ail Khel	√	√	-	-	-	-	√	-
15	Dawlat Khel		√	√	√	-	-	-	-	-
16	Gharak	Talkhan	√	-	-	-	-	-	√	Lack of well
17	Ghonday		√	-	√	-	-	-	√	-
18	Ghwareza		√	√	√	-	-	-	√	-
19	Gud Mangal Qala		√	√	√	-	-	-	-	-
20	Isa Khel		√	√	√	-	-	-	-	-
21	Jangi Khel		√	√	√	-	-	-	-	-
22	Kalgar	Mohd Amin Khel	√	-	√	-	-	-	√	-
23	Kamran Khel		√	√	√	-	-	-	√	-
24	Karezgay		√	-	√	-	-	-	√	-
25	Kerkin	Gorandi Shekhan	√	√	√	-	-	-	-	-
26	Kerkin	Jan Ghunday	-	-	-	-	-	-	-	Lack of clinic
27	Kerkin	Selarai	-	-	-	-	-	-	-	Lack of clinic

Appendix D1: Repatriation problems in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Main problems in returning of refugees							
			A	B	C	D	E	F	G	H
28	Kerkin	Sru Kholeh	√	√	√	-	-	-	-	-
29	Kerkin	Sur Petaw	√	√	√	-	-	-	-	-
30	Kerkin	Wocha Lagada	-	-	-	-	-	-	-	Lack of clinic
31	Kerkin Kholeh		-	-	-	-	-	-	-	Lack of clinic
32	Khanak Khel		√	√	√	-	-	-	-	-
33	Khand Khel	Khand Khel	√	√	-	-	-	-	√	-
34	Khand Khel	Lalak Kalay	√	-	√	-	-	-	√	-
35	Khawajar Khel		√	√	√	-	-	-	-	-
36	Kosin	Bar Khano Khel	√	√	√	-	-	-	√	Lack of school and clinic
37	Kosin	Gorgori Qala	√	√	√	-	-	-	√	Lack of school and clinic
38	Kosin	Kalgar	√	-	-	-	-	-	√	Lack of school and clinic
39	Kosin	Khoshal Khel	√	√	-	-	-	-	√	Lack of school and clinic
40	Kosin	Kuz Khano Khel	√	-	√	-	-	-	√	-
41	Kosin	Masak Karez	√	-	√	-	-	-	√	-
42	Kosin	Shayasta Kalay	√	-	-	-	-	-	√	-
43	Kosin	Shekhan	√	-	√	-	-	-	√	-
44	Kotkay		√	√	√	-	-	-	√	-
45	Koz Feroz Khel		√	√	√	-	-	-	√	-
46	Kunder Khel		√	√	√	-	-	-	-	-
47	Kuz Sejenak	Kuz Sejenak	√	-	√	-	-	-	√	-
48	Kuz Sejenak	Tarai	-	-	√	-	-	-	√	-
49	Machal Ghu	Akbar Khel	√	√	√	-	-	-	√	-
50	Machal Ghu	Babakrey	√	-	√	-	-	-	√	-
51	Machal Ghu	Bazu Khel	√	√	√	-	-	-	-	-
52	Machal Ghu	Gandir Khel	√	√	√	-	-	-	-	-
53	Machal Ghu	Godian	√	√	√	-	-	-	√	-
54	Machal Ghu	Hassan Qala	√	√	√	-	-	-	√	-

Appendix D1: Repatriation problems in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Main problems in returning of refugees A	B	C	D	E	F	G	H
55	Machal Ghu	Lewan	-	-	-	-	-	-	-	-
56	Machal Ghu	Mado Khel	√	√	√	-	-	-	√	-
57	Machal Ghu	Mamozai	√	-	√	-	-	-	√	-
58	Machal Ghu	Mulla Khel	√	-	√	-	-	-	√	-
59	Machal Ghu	Nagram	√	√	√	-	-	-	-	-
60	Machal Ghu	Nandar Khel	√	√	√	-	-	-	√	-
61	Machal Ghu	Nora Khel	√	√	√	-	-	-	√	-
62	Machal Ghu	Pala Khel	√	√	√	-	-	-	-	-
63	Machal Ghu	Salim Khan Khel	√	√	√	-	-	-	√	-
64	Machal Ghu	Sayed Khel	√	-	√	-	-	-	√	-
65	Machal Ghu	Spina Qala	√	√	-	-	-	-	√	-
66	Machal Ghu	Taro Khel	√	√	√	-	-	-	-	-
67	Machal Ghu	Toor Khel	√	√	√	-	-	-	-	-
68	Machal Ghu	Wach Khakh Qala	√	-	√	-	-	-	√	-
69	Mawroz Khel		√	√	√	-	-	-	√	-
70	Merzaka	Azad Khel	√	-	√	-	-	-	√	-
71	Merzaka	Batay	√	-	√	-	-	-	√	-
72	Merzaka	Chanjay Khwar	-	-	√	-	-	-	-	-
73	Merzaka	Chungay	√	-	-	-	-	-	√	-
74	Merzaka	Garamay	√	-	-	-	-	-	√	-
75	Merzaka	Ghonzay	√	√	√	-	-	-	-	-
76	Merzaka	Hajian	√	-	√	-	-	-	√	-
77	Merzaka	Kajeray	√	-	√	-	-	-	√	-
78	Merzaka	Khalilan	√	-	√	-	-	-	-	-
79	Merzaka	Nora China	√	-	√	-	-	-	√	Lack of well
80	Merzakay	Serkay Tanga	√	-	√	-	-	-	-	-
81	Mia Khel		√	√	√	-	-	√	√	-

Appendix D1: Repatriation problems in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Main problems in returning of refugees							
			A	B	C	D	E	F	G	H
82	Naray Kalay		√	√	√	-	-	-	-	-
83	Nigram	Ainuddin Qala	√	-	-	-	-	-	√	-
84	Osman Khel	Mach	√	-	-	-	-	√	√	-
85	Osman Khel	Raza Khel	√	√	√	-	-	-	-	-
86	Qader Khel		√	√	√	-	-	-	-	-
87	Shamsherabad		√	√	√	-	-	-	-	-
88	Salam Khel	Afzal Khel	√	-	√	-	-	-	-	Lack of school and clinic
89	Salam Khel	Bike Khel	√	√	√	-	-	-	-	-
90	Salam Khel	Salu Khel	√	-	√	-	-	-	-	-
91	Salam Khel	Sra Qala	√	√	√	-	-	-	-	-
92	Salam Khel	Sur Sang	√	√	√	-	-	-	-	-
93	Salemi Nargay		√	√	-	-	-	-	-	Lack of clinic
94	Sarwar Qala		√	√	√	-	-	-	√	Lack of school and clinic
95	Sayed Khel		√	√	√	-	-	-	-	Lack of school and clinic
96	Serkay Malang		√	-	√	-	-	-	-	-
97	Sham Ghunday		-	-	-	-	-	-	√	Lack of clinic
98	Spina Qala		√	√	√	-	-	-	√	-
99	Sur Sangyan		√	√	√	-	-	-	√	-
100	Talbi Khel		√	√	√	-	-	-	-	-
101	Tand Gharak	Ataei Qala	√	√	-	-	-	-	√	Lack of well
102	Tand Gharak	Fazal Khel	√	√	√	-	-	-	√	-
103	Tand Gharak	Miw Khel	√	√	√	-	-	-	√	-
104	Tand Gharak	Seway	√	-	√	-	-	-	√	-
105	Tand Gharak	Zundi Khel	√	√	√	-	-	-	√	-
106	Usman Khel	Esa Khel	√	√	√	-	-	-	-	-
107	Usman Khel	Lewanian Khel	√	√	√	-	-	-	√	-

Appendix D1: Repatriation problems in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Main problems in returning of refugees							
			A	B	C	D	E	F	G	H
108	Yahya Khel		√	√	√	-	-	-	√	-
109	Yargul Khel		√	-	√	-	-	-	-	Lack of school and clinic

A= Lack of houses
B= Lack of food
C= Unemployment
D= Security
E= Fighting
F= Abandoned arable land
G= Damaged irrigation system
H= Other(specify)

Appendix E: Housing status in Gardez district

S/No	Main village	Sub Village	Total No of houses	Number of houses		
				Undamaged	Damaged	Destroyed
1	Ahangaran		45	30	5	10
2	Asalatbeg		30	6	10	14
3	Atam Kalay		15	3	7	5
4	Awdakay		260	150	0	110
5	Bala Deh	Afzal Khel	50	32	10	8
6	Bala Deh	Bala Deh	150	120	20	10
7	Bala Deh	Raies Khel	40	34	5	1
8	Bala Deh	Rodak	39	35	0	4
9	Banozai	Bano zai	300	0	15	285
10	Banozai	Darabal Kalay	17	2	10	5
11	Banozai	Salar Kalay	14	0	0	14
12	Chakan Shekhan		6	4	0	2
13	Chawanay	Metran Khel	25	1	12	12
14	Chawanay	Pahlawan Khel	60	10	45	5
15	Chawanay	Rabati	32	10	6	16
16	Dara		250	0	20	230
17	Dawlatzai	Ali Jan Khel	23	8	3	12
18	Dawlatzai	Dray Plari	4	1	2	1
19	Dawlatzai	Fathullah	30	15	10	5
20	Dawlatzai	Gadai Khel	10	1	2	7
21	Dawlatzai	Gajan	11	5	0	6
22	Dawlatzai	Ghunday Kalay	45	20	20	5
23	Dawlatzai	Habib Khel	60	16	0	44
24	Dawlatzai	Laghar	20	3	0	17
25	Dinar Khel		50	15	20	15
26	Doghabad		25	15	10	0
27	Golo Khel		15	5	4	6
28	Golo wall	Bar Golowall	24	10	6	8
29	Golowall	Kuz Golowall	15	3	6	6
30	Hemat Khel		14	4	4	6
31	Ibrahim Khel	Azami Khel	10	4	4	2
32	Ibrahim Khel	Bada Khel	35	5	20	10

Appendix E: Housing status in Gardez district (Cont..)

S/No	Main village	Sub Village	Total No of houses	Number of houses		
				Undamaged	Damaged	Destroyed
33	Ibrahim Khel	Ghani Qala	7	3	3	1
34	Ibrahim Khel	Karama Khel	20	4	8	8
35	Ibrahim Khel	Mashad Khel	21	2	17	2
36	Ibrahim Khel	Pakhary	8	3	1	4
37	Ibrahim Khel	Pirzad Khel	25	6	12	7
38	Ibrahim Khel	Rahmat Khel	29	18	1	10
39	Ibrahim Khel	Raza Khel	16	6	3	7
40	Ibrahim Khel	Sadiq Khel	22	4	8	10
41	Ibrahim Khel	Sarwar Khel	30	10	5	15
42	Ibrahim Khel	Tabiban	6	2	1	3
43	Ibrahim Khel	Tan Khan Khel	14	2	4	8
44	Ibrahim Khel	Walyan	40	2	8	30
45	Karmashi		150	100	45	5
46	Khan Qala		17	3	8	6
47	Khataba	Sadiq Khel	65	36	19	10
48	Khataba	Shakar Khel	50	25	15	10
49	Khataba	Shekhano Qala	17	4	6	7
50	Khwaja Hassan	Khwaja Hassan Ulya	100	99	0	1
51	Khwaja Hassan	Khwaja Hassan Sufla	90	75	15	0
52	Kochi Khel		48	40	5	3
53	Kwash	Azgana	30	8	2	20
54	Kwash	Bar Kwash	30	5	5	20
55	Kwash	Koz Kwash	15	1	5	9
56	Kwash	Pakhari	15	1	0	14
57	Mahmud Qala		30	10	10	10
58	Malik Khel		20	15	5	0
59	Melan	Doaba	80	10	20	50
60	Melan	Habib Qala	60	10	20	30
61	Melan	Hajiano Kalay	65	16	29	20
62	Melan	Melan	150	10	30	110
63	Melan	Shekhan	40	0	2	38
64	Mia Noor Qala		30	12	6	12

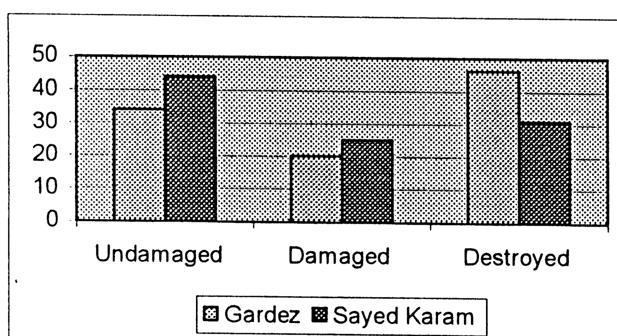
2.3 Housing Status

Out of 10,419 houses reported in the surveyed area, 4,064 houses were undamaged, while 2,365 houses were destroyed and 3,990 houses were damaged (see Table 2.4, Figure 2.3-2.4 and Appendix E-E1).

Table 2.4: Housing status

District	No. of villages surveyed	Total No. of houses	Number and percentage of houses					
			Undamaged		Damaged		Destroyed	
			No.	%	No.	%	No.	%
Gardez	109	5095	1732	34	1020	20	2343	46
Sayed Karam	109	5324	2332	44	1345	25	1647	31

Figure 2.3: Housing status



There are three abandoned villages in Sayed Karam and one abandoned village in Gardez district.

2.4 Drinking Water Sources

Open wells and karezes were reported to be the main sources of drinking water in both Gardez and Sayed Karam districts. Covered wells followed by springs constituted the third and fourth sources of drinking water, respectively. Streams, rivers, pipe water and ponds were the other sources of drinking water in the area surveyed (for the percentages see Table 2.5 and Appendix F-F1).

Table 2.5: Use of drinking water sources by Percentage

District	No. of villages surveyed	River	Canal /Joy	Covered well	Open well	Spring	Pipe water	Pond	Karez	Others
Gardez	109	5	5	23	27	11	3	1	22	3
Sayed Karam	109	5	14	16	21	13	4	6	20	0

<u>**List of others**</u>
Tankar
Tube well

Appendix E: Housing status in Gardez district (Cont..)

S/No	Main village	Sub Village	Total No of houses	Number of houses		
				Undamaged	Damaged	Destroyed
65	Mohd Raza Khel		24	4	0	20
66	Mumray		66	50	12	4
67	Niazi Qala		40	28	7	5
68	Nisti Kot	Kuz Nistikot	6	3	3	0
69	Nistikot	Bar Nistikot	70	25	15	30
70	Pushta		15	14	0	1
71	Qala-e-Arjal		16	8	5	3
72	Qala-e-Dahbashi		15	12	0	3
73	Qala-e-Halim		49	4	30	15
74	Qala-e-Sarsang		60	30	20	10
75	Qala-e-Sayedan		60	30	10	20
76	Qala-e-Zargar		8	4	0	4
77	Rabat	Rabat	40	25	5	10
78	Rabat	Shah-e-Qadam	14	10	4	0
79	Sadat Khel		20	14	0	6
80	Saidan	Mashayan	10	0	8	2
81	Saparai		115	35	50	30
82	Sarkary Qala		12	3	5	4
83	Sepahi Khel		80	4	15	61
84	Shahr-e-Naw		42	38	0	4
85	Shekhan		11	1	7	3
86	Shekhan		200	70	55	75
87	Shekhan		28	8	15	5
88	Talbi Khel		12	7	0	5
89	Teray	Azad Khan Khel	28	4	4	20
90	Teray	Bagho Kalay	60	4	0	56
91	Teray	Charmakhkay	35	10	10	15
92	Teray	Fazal Qala	20	5	7	8
93	Teray	Ghafur Khel	50	3	0	47
94	Teray	Kuz Lewan	10	4	3	3
95	Teray	Lewanian	40	8	10	22
96	Teray	Lewan	60	15	10	35

Appendix E: Housing status in Gardez district (Cont..)

S/No	Main village	Sub Village	Total No of houses	Number of houses		
				Undamaged	Damaged	Destroyed
97	Teray	Momin Khel	75	25	20	30
98	Teray	Nawrakay	60	6	0	54
99	Teray	Samad Khel	25	5	10	10
100	Teray	Spina Qala	60	8	0	52
101	Teray	Sra Qala	30	8	10	12
102	Teray	Tandan	100	20	40	40
103	Teray	Tarkanan	23	16	0	7
104	Teray	Woch Khakh	16	4	0	12
105	Utmanay		14	1	5	8
106	Woch Gharak		90	30	20	40
107	Zawa		200	5	7	188

Appendix E1: Housing status in Sayed Karam district

S/No	Main village	Sub Village	Total No of houses	Number of houses		
				Undamaged	Damaged	Destroyed
1	Ahmad Shah Khel		10	5	2	3
2	Andwam		200	150	40	10
3	Arab Khel		15	10	5	0
4	Ashpan		30	5	10	15
5	Bar Sejenak		180	70	90	20
6	Bar Sejenak	Alamgay	17	7	0	10
7	Batyan Khel		10	3	3	4
8	Cher Rakay		35	25	10	0
9	Chino	Chino	80	46	30	4
10	Chino	Chino Sar	80	40	20	20
11	Chino	Durrani	60	25	20	15
12	Dam	Ayubi	122	60	20	42
13	Dam	Khogory	75	30	25	20
14	Dam	Mir Ail Khel	55	35	10	10
15	Dawlat Khel		20	5	15	0
16	Gharak	Talkhan	30	13	7	10
17	Ghonday		40	18	8	14
18	Ghwareza		38	4	4	30
19	Gud Mangal Qala		65	35	20	10
20	Isa Khel		100	45	30	25
21	Jangi Khel		25	12	5	8
22	Kalgar	Mohd Amin Khel	30	3	15	12
23	Kamran Khel		40	14	11	15
24	Karezgay		80	40	10	30
25	Kerkin	Gorandi Shekhan	40	34	6	0
26	Kerkin	Jan Ghunday	22	21	0	1
27	Kerkin	Selarai	75	57	13	5
28	Kerkin	Sru Kholeh	100	99	0	1
29	Kerkin	Sur Petaw	35	24	6	5
30	Kerkin	Wocha Lagada	50	40	10	0
31	Kerkin Kholeh		80	50	30	0
32	Khanak Khel		24	9	8	7

Appendix E1: Housing status in Sayed Karam district (Cont..)

S/No	Main village	Sub Village	Total No of houses	Number of houses		
				Undamaged	Damaged	Destroyed
33	Khand Khel	Khand Khel	100	30	30	40
34	Khand Khel	Lalak Kalay	10	0	5	5
35	Khawajar Khel		30	20	5	5
36	Kosin	Bar Khano Khel	50	6	29	15
37	Kosin	Gorgori Qala	21	10	6	5
38	Kosin	Kalgar	200	60	80	60
39	Kosin	Khoshal Khel	100	15	27	58
40	Kosin	Kuz Khano Khel	100	10	20	70
41	Kosin	Masak Karez	40	5	15	20
42	Kosin	Shayasta Kalay	9	3	4	2
43	Kosin	Shekhan	35	20	4	11
44	Kotkay		40	3	35	2
45	Koz Feroz Khel		33	12	17	4
46	Kunder Khel		45	23	15	7
47	Kuz Sejenak	Kuz Sejenak	60	23	15	22
48	Kuz Sejenak	Tarai	20	10	6	4
49	Machal Ghu	Akbar Khel	8	2	0	6
50	Machal Ghu	Babakrey	30	10	5	15
51	Machal Ghu	Bazu Khel	55	25	10	20
52	Machal Ghu	Gandir Khel	25	10	15	0
53	Machal Ghu	Godian	36	16	2	18
54	Machal Ghu	Hassan Qala	30	15	5	10
55	Machal Ghu	Lewan	35	10	12	13
56	Machal Ghu	Mado Khel	23	1	12	10
57	Machal Ghu	Mamozai	80	40	0	40
58	Machal Ghu	Mulla Khel	120	65	25	30
59	Machal Ghu	Nagram	25	14	3	8
60	Machal Ghu	Nandar Khel	45	10	10	25
61	Machal Ghu	Nora Khel	65	10	5	50
62	Machal Ghu	Pala Khel	30	22	0	8
63	Machal Ghu	Salim Khan Khel	40	20	20	0
64	Machal Ghu	Sayed Khel	38	24	5	9

Appendix E1: Housing status in Sayed Karam district (Cont..)

S/No	Main village	Sub Village	Total No of houses	Number of houses		
				Undamaged	Damaged	Destroyed
65	Machal Ghu	Spina Qala	40	30	10	0
66	Machal Ghu	Taro Khel	140	70	40	30
67	Machal Ghu	Toor Khel	25	15	10	0
68	Machal Ghu	Wach Khakh Qala	8	4	0	4
69	Mawroz Khel		45	12	13	20
70	Merzaka	Azad Khel	30	15	10	5
71	Merzaka	Batay	200	140	20	40
72	Merzaka	Chanjay Khwar	35	20	10	5
73	Merzaka	Chungay	11	4	5	2
74	Merzaka	Garamay	30	19	8	3
75	Merzaka	Ghonzay	60	30	15	15
76	Merzaka	Hajian	50	25	10	15
77	Merzaka	Kajeray	70	70	0	0
78	Merzaka	Khalilan	50	30	10	10
79	Merzaka	Nora China	25	10	7	8
80	Merzakay	Serkay Tanga	15	9	5	1
81	Mia Khel		10	3	0	7
82	Naray Kalay		6	1	5	0
83	Nigram	Ainuddin Qala	5	5	0	0
84	Osman Khel	Mach	35	5	10	20
85	Osman Khel	Raza Khel	97	2	15	80
86	Qader Khel		35	15	15	5
87	Shamsherabad		42	10	20	12
88	Salam Khel	Afzal Khel	40	21	10	9
89	Salam Khel	Bike Khel	8	5	3	0
90	Salam Khel	Salu Khel	15	6	6	3
91	Salam Khel	Sra Qala	14	8	2	4
92	Salam Khel	Sur Sang	25	12	5	8
93	Salemi Nargay		28	15	5	8
94	Sarwar Qala		9	1	3	5
95	Sayed Khel		55	5	40	10
96	Serkay Malang		15	9	2	4

Appendix E1: Housing status in Sayed Karam district (Cont..)

S/No	Main village	Sub Village	Total No of houses	Number of houses		
				Undamaged	Damaged	Destroyed
97	Sham Ghunday		15	10	2	3
98	Spina Qala		36	6	10	20
99	Sur Sangyan		9	5	1	3
100	Talbi Khel		12	4	2	6
101	Tand Gharak	Ataei Qala	8	1	4	3
102	Tand Gharak	Fazal Khel	57	30	7	20
103	Tand Gharak	Miw Khel	25	12	5	8
104	Tand Gharak	Seway	9	5	3	1
105	Tand Gharak	Zundi Khel	130	30	10	90
106	Usman Khel	Esa Khel	33	6	16	11
107	Usman Khel	Lewanian Khel	248	8	40	200
108	Yahya Khel		18	5	3	10
109	Yargul Khel		10	6	3	1

Appendix F: Drinking water sources in Gardez district

S/NO.	Main village	Sub village	% of sources used: River	Canal/Joy	Well: Covered	Well: Open	Spring	Pipe water	Pond	Karez	Tanker	Tube well	Distance of mostly used source (Km)
1	Ahangaran		0	0	40	0	60	0	0	0	0	0	0.0
2	Asalatbeg		0	0	0	20	0	0	0	80	0	0	0.5
3	Atam Kalay		0	0	30	70	0	0	0	0	0	0	0.0
4	Awdakay		0	0	0	20	80	0	0	0	0	0	0.0
5	Bala Deh	Afzal Khel	0	60	40	0	0	0	0	0	0	0	0.5
6	Bala Deh	Bala Deh	60	0	40	0	0	0	0	0	0	0	0.6
7	Bala Deh	Raies Khel	0	60	40	0	0	0	0	0	0	0	0.0
8	Bala Deh	Rodak	0	0	40	60	0	0	0	0	0	0	0.0
9	Banozai	Bano zai	0	0	0	0	0	0	0	100	0	0	0.0
10	Banozai	Darabal Kalay	0	0	0	0	0	0	0	0	100	0	0.0
11	Banozai	Salar Kalay	0	0	0	0	0	0	0	100	0	0	0.0
12	Chakan Shekhan		0	0	0	0	0	100	0	0	0	0	0.0
13	Chawanay	Metran Khel	0	0	50	0	0	0	0	0	50	0	0.0
14	Chawanay	Pahlawan Khel	0	0	0	10	0	0	90	0	0	0	0.0
15	Chawanay	Rabati	0	0	100	0	0	0	0	0	0	0	0.0
16	Dara		0	0	0	0	100	0	0	0	0	0	0.0
17	Dawlatzai	Habib Khel	0	0	10	90	0	0	0	0	0	0	0.0
18	Dawlatzai	Laghar	0	0	0	100	0	0	0	0	0	0	0.5
19	Dawlatzai	Ali Jan Khel	0	0	100	0	0	0	0	0	0	0	0.0
20	Dawlatzai	Dray Plari	0	0	0	50	0	0	0	0	50	0	3.0
21	Dawlatzai	Fathullah	0	0	0	25	0	0	0	75	0	0	0.5
22	Dawlatzai	Gadai Khel	0	30	30	40	0	0	0	0	0	0	0.0
23	Dawlatzai	Gajan	0	0	100	0	0	0	0	0	0	0	0.0
24	Dawlatzai	Ghunday Kalay	0	0	0	0	0	40	0	60	0	0	0.5
25	Dinar Khel		0	0	0	50	0	50	0	0	0	0	0.0
26	Doghabad		0	0	20	0	0	0	0	80	0	0	0.0
27	Golo Khel		0	0	40	0	0	0	0	60	0	0	0.0
28	Golo wall	Bar Golowall	0	100	0	0	0	0	0	0	0	0	0.0
29	Golowall	Kuz Golowall	0	0	100	0	0	0	0	0	0	0	0.0
30	Hemat Khel		0	0	20	80	0	0	0	0	0	0	0.0

Appendix F: Drinking water sources in Gardez district (Cont..)

S/NO.	Main village	Sub village	% of sources used: River	Canal/Joy	Well: Covered	Well: Open	Spring	Pipe water	Pond	Karez	Tanker	Tube well	Distance of mostly used source (Km)
31	Ibrahim Khel	Azami Khel	0	0	10	90	0	0	0	0	0	0	0.0
32	Ibrahim Khel	Bada Khel	0	0	50	50	0	0	0	0	0	0	0.0
33	Ibrahim Khel	Ghani Qala	0	0	100	0	0	0	0	0	0	0	0.5
34	Ibrahim Khel	Karama Khel	0	0	0	0	0	0	0	100	0	0	1.0
35	Ibrahim Khel	Mashad Khel	0	0	40	60	0	0	0	0	0	0	0.0
36	Ibrahim Khel	Pakhary	0	0	50	50	0	0	0	0	0	0	0.0
37	Ibrahim Khel	Pirzad Khel	0	0	0	70	0	0	0	30	0	0	0.0
38	Ibrahim Khel	Rahmat Khel	0	0	100	0	0	0	0	0	0	0	0.5
39	Ibrahim Khel	Raza Khel	0	0	50	50	0	0	0	0	0	0	0.0
40	Ibrahim Khel	Sadiq Khel	0	0	100	0	0	0	0	0	0	0	0.0
41	Ibrahim Khel	Sarwar Khel	0	0	0	100	0	0	0	0	0	0	0.0
42	Ibrahim Khel	Tabiban	0	0	10	90	0	0	0	0	0	0	0.0
43	Ibrahim Khel	Tan Khan Khel	0	0	50	35	0	0	0	0	0	15	0.0
44	Ibrahim Khel	Walyan	0	0	0	0	0	0	0	100	0	0	1.0
45	Karmashi		0	0	100	0	0	0	0	0	0	0	0.0
46	Khan Qala		0	0	0	0	0	0	0	100	0	0	0.0
47	Khataba	Sadiq Khel	0	0	60	40	0	0	0	0	0	0	0.0
48	Khataba	Shakar Khel	0	0	80	0	0	0	0	20	0	0	0.0
49	Khataba	Shekhano Qala	0	0	40	60	0	0	0	0	0	0	0.0
50	Khwaja Hassan	Khwaja Hassan Ulya	0	0	0	20	0	0	0	80	0	0	0.0
51	Khwaja Hassan	Khwaja Hassan Sufla	0	0	20	30	0	0	0	50	0	0	0.0
52	Kochi Khel		0	0	0	50	50	0	0	0	0	0	0.0
53	Kwash	Azgana	0	0	0	0	100	0	0	0	0	0	0.0
54	Kwash	Bar Kwash	0	0	0	0	0	0	0	100	0	0	0.0
55	Kwash	Koz Kwash	0	0	0	0	0	0	0	100	0	0	3.0
56	Kwash	Pakhari	0	0	0	0	0	0	0	100	0	0	0.0
57	Mahmud Qala		0	0	50	50	0	0	0	0	0	0	0.0
58	Malik Khel		0	0	20	80	0	0	0	0	0	0	0.0
59	Melan	Doaba	0	0	0	0	100	0	0	0	0	0	0.0
60	Melan	Habib Qala	0	0	0	20	80	0	0	0	0	0	0.0

Appendix F: Drinking water sources in Gardez district (Cont..)

S/NO.	Main village	Sub village	River	Canal/Joy	Well: Covered	Well: Open	Spring	Pipe water	Pond	Karez	Tanker	Tube well	Distance of mostly used source(Km)
			% of sources used										
61	Melan	Hajiano Kalay	0	0	0	20	0	0	0	80	0	0	0.0
62	Melan	Melan	0	0	0	60	0	0	0	40	0	0	0.0
63	Melan	Shekhan	0	0	100	0	0	0	0	0	0	0	0.0
64	Mia Noor Qala		0	0	40	60	0	0	0	0	0	0	0.0
65	Mohd Raza Khel		0	0	0	0	100	0	0	0	0	0	0.0
66	Mumray		0	50	50	0	0	0	0	0	0	0	0.0
67	Niazi Qala		0	0	0	0	0	0	0	100	0	0	0.0
68	Nisti Kot	Kuz Nistikot	0	0	0	100	0	0	0	0	0	0	0.0
69	Nistikot	Bar Nistikot	0	0	20	30	0	0	0	50	0	0	0.0
70	Pushta		0	0	0	30	0	0	0	70	0	0	0.0
71	Qala-e-Arjal		0	0	10	90	0	0	0	0	0	0	0.0
72	Qala-e-Dahbashi		0	0	0	0	0	0	0	0	0	100	0.0
73	Qala-e-Halim		0	0	0	100	0	0	0	0	0	0	0.0
74	Qala-e-Sarsang		0	0	100	0	0	0	0	0	0	0	0.0
75	Qala-e-Sayedan		0	20	0	80	0	0	0	0	0	0	0.0
76	Qala-e-Zargar		0	70	0	30	0	0	0	0	0	0	0.0
77	Rabat	Rabat	0	0	50	0	0	0	0	50	0	0	0.0
78	Rabat	Shah-e-Qadam	0	0	0	0	100	0	0	0	0	0	0.0
79	Sadat Khel		0	0	40	60	0	0	0	0	0	0	0.0
80	Saidan	Mashayan	0	100	0	0	0	0	0	0	0	0	0.0
81	Saparai		0	0	0	0	0	0	0	100	0	0	1.0
82	Sarkary Qala		0	0	0	100	0	0	0	0	0	0	0.0
83	Sepahi Khel		0	0	0	0	0	0	0	100	0	0	0.0
84	Shahr-e-Naw		0	0	20	50	0	30	0	0	0	0	0.0
85	Shekhan		0	0	0	50	0	0	0	0	50	0	11.0
86	Shekhan		0	0	30	0	35	35	0	0	0	0	0.0
87	Shekhan		0	0	50	0	50	0	0	0	0	0	1.0
88	Talbi Khel		0	0	70	30	0	0	0	0	0	0	0.0
89	Teray	Azad Khan Khel	90	0	10	0	0	0	0	0	0	0	0.5
90	Teray	Bagho Kalay	0	0	0	100	0	0	0	0	0	0	0.0

Appendix F: Drinking water sources in Gardez district (Cont..)

S/NO.	Main village	Sub village	% of sources used: River	Canal/Joy	Well: Covered	Well: Open	Spring	Pipe water	Pond	Karez	Tanker	Tube well	Distance of mostly used source(Km)
91	Teray	Charmakhkay	0	0	0	0	0	0	0	100	0	0	0.0
92	Teray	Fazal Qala	0	0	10	30	0	0	0	60	0	0	0.4
93	Teray	Ghafur Khel	0	0	0	0	100	0	0	0	0	0	0.5
94	Teray	Kuz Lewan	100	0	0	0	0	0	0	0	0	0	0.0
95	Teray	Lewanian	0	0	40	0	60	0	0	0	0	0	0.5
96	Teray	Lewan	0	0	30	70	0	0	0	0	0	0	0.0
97	Teray	Momin Khel	0	0	40	60	0	0	0	0	0	0	0.0
98	Teray	Nawrakay	100	0	0	0	0	0	0	0	0	0	0.5
99	Teray	Samad Khel	0	0	0	100	0	0	0	0	0	0	0.0
100	Teray	Spina Qala	100	0	0	0	0	0	0	0	0	0	0.5
101	Teray	Sra Qala	0	0	0	0	0	0	0	100	0	0	0.0
102	Teray	Tandan	70	0	30	0	0	0	0	0	0	0	0.0
103	Teray	Tarkanan	0	0	40	60	0	0	0	0	0	0	0.0
104	Teray	Woch Khakh	0	0	0	0	100	0	0	0	0	0	2.0
105	Utmanay		0	0	0	20	0	0	0	80	0	0	0.6
106	Woch Gharak		0	0	0	0	55	45	0	0	0	0	2.0
107	Zawa		0	80	0	0	0	0	20	0	0	0	0.0

2.5 Access Road and Transportation

Out of 218 villages surveyed, only one village (Pakhari village of Gardez district) reported for having no access road. The rest of the villages had access roads. In Gardez only 11 villages reported access road with good conditions, while in Sayed Karam no village indicated good conditions for their roads. Most of the villages (166) in both districts reported roads having fairly good conditions, while 40 villages indicated the status of their roads as bad (see Table 2.6 and Appendix G-G1).

Table 2.6: Condition of roads

District	No. of villages surveyed	No. of villages with access road	No. of village replied for Condition of road as		
			Good	Fairly good	Bad
Gardez	109	108	11	87	10
Sayed Karam	109	109	0	79	30

As the roads being suitable for vehicles, people use vehicles as their main means of transportation. Donkeys are the other means of transportation used by 14% and 17% of villagers in Gardez and Sayed Karam districts, respectively. Hand carts and bicycles are only used by a small proportion of villagers. Only one percent of the villages in Sayed Karam district reported that they go by foot where ever they need (see Table 2.7 and Appendix G-G1).

Table 2.7: Transportation means used by percentage

District	No. of villages surveyed	Vehicle	Donkey	Bicyclel	Hand cart	By foot
Gardez	109	77	14	1	7	0
Sayed Karam	109	80	17	0	2	1

Appendix F1: Drinking water sources in Sayed Karam district

S/NO.	Main village	Sub village	% of sources used: River	Canal/Joy	Well: Covered	Well: Open	Spring	Pipe water	Pond	Karez	Distance of mostly used source(Km)
1	Ahmad Shah Khel		0	60	0	40	0	0	0	0	0.0
2	Andwam		0	0	0	0	50	0	0	50	0.3
3	Arab Khel		0	0	100	0	0	0	0	0	0.0
4	Ashpan		0	0	50	0	0	0	0	50	0.0
5	Bar Sejenak		0	0	0	0	40	60	0	0	0.0
6	Bar Sejenak	Alamgay	0	0	100	0	0	0	0	0	0.0
7	Batyan Khel		0	0	0	80	20	0	0	0	0.0
8	Cher Rakay		0	0	0	0	0	0	0	100	0.0
9	Chino	Chino	0	0	20	0	40	0	0	40	0.0
10	Chino	Chino Sar	0	0	0	0	100	0	0	0	0.0
11	Chino	Durrani	0	0	20	30	0	0	0	50	0.0
12	Dam	Ayubi	0	0	0	0	0	0	0	100	1.0
13	Dam	Khogory	0	0	90	0	0	0	0	10	0.0
14	Dam	Mir Ail Khel	0	0	0	50	50	0	0	0	0.0
15	Dawlat Khel		0	0	40	50	10	0	0	0	0.0
16	Gharak	Talkhan	0	0	0	0	0	0	100	0	0.0
17	Ghonday		0	0	0	0	0	0	0	100	0.0
18	Ghwareza		0	0	0	0	0	0	0	100	0.0
19	Gud Mangal Qala		0	80	20	0	0	0	0	0	0.0
20	Isa Khel		0	40	60	0	0	0	0	0	0.0
21	Jangi Khel		0	20	0	80	0	0	0	0	0.0
22	Kalgar	Mohd Amin Khel	0	60	40	0	0	0	0	0	0.0
23	Kamran Khel		0	0	40	60	0	0	0	0	0.0
24	Karezgay		0	0	0	0	0	0	0	100	0.5
25	Kerkin	Gorandi Shekhan	0	100	0	0	0	0	0	0	0.0
26	Kerkin	Jan Ghunday	0	0	0	0	0	100	0	0	0.0
27	Kerkin	Selarai	15	0	0	0	0	85	0	0	0.0
28	Kerkin	Sru Kholeh	0	100	0	0	0	0	0	0	0.0
29	Kerkin	Sur Petaw	0	100	0	0	0	0	0	0	0.0
30	Kerkin	Wocha Lagada	0	100	0	0	0	0	0	0	0.0

Appendix F1: Drinking water sources in Sayed Karam district (Cont..)

S/NO.	Main village	Sub village	River	Canal/Joy	Well: Covered	Well: Open	Spring	Pipe water	Pond	Karez	Distance of mostly used source (Km)
			% of sources used								
31	Kerkin Kholeh		0	0	0	0	50	50	0	0	0.0
32	Khanak Khel		0	60	40	0	0	0	0	0	0.0
33	Khand Khel	Khand Khel	0	0	0	0	0	0	0	100	0.0
34	Khand Khel	Lalak Kalay	0	0	0	0	0	0	0	100	0.0
35	Khawajar Khel		0	0	50	50	0	0	0	0	0.0
36	Kosin	Bar Khano Khel	0	0	0	50	50	0	0	0	0.0
37	Kosin	Gorgori Qala	0	0	30	70	0	0	0	0	0.0
38	Kosin	Kalgar	0	40	30	30	0	0	0	0	0.0
39	Kosin	Khoshal Khel	0	0	10	30	0	0	0	60	0.0
40	Kosin	Kuz Khano Khel	40	0	0	40	0	0	0	20	0.0
41	Kosin	Masak Karez	0	0	0	0	0	0	0	100	0.0
42	Kosin	Shayasta Kalay	0	0	0	100	0	0	0	0	0.0
43	Kosin	Shekhan	0	20	0	30	0	0	0	50	0.0
44	Kotkay		0	20	80	0	0	0	0	0	0.0
45	Koz Feroz Khel		0	0	0	100	0	0	0	0	0.0
46	Kunder Khel		0	0	60	0	40	0	0	0	0.0
47	Kuz Sejenak	Kuz Sejenak	0	0	0	10	30	0	0	60	0.5
48	Kuz Sejenak	Tarai	0	0	0	0	0	0	0	100	0.0
49	Machal Ghu	Akbar Khel	0	0	0	10	0	0	90	0	0.0
50	Machal Ghu	Babakrey	0	0	0	0	100	0	0	0	0.0
51	Machal Ghu	Bazu Khel	0	0	20	0	0	0	80	0	0.0
52	Machal Ghu	Gandir Khel	100	0	0	0	0	0	0	0	0.0
53	Machal Ghu	Godian	80	0	0	20	0	0	0	0	0.5
54	Machal Ghu	Hassan Qala	0	0	0	0	0	0	0	100	1.0
55	Machal Ghu	Lewan	0	0	0	0	100	0	0	0	0.0
56	Machal Ghu	Mado Khel	0	0	0	100	0	0	0	0	0.0
57	Machal Ghu	Mamozai	0	60	40	0	0	0	0	0	0.0
58	Machal Ghu	Mulla Khel	0	0	40	0	0	0	60	0	0.0
59	Machal Ghu	Nagram	0	0	20	30	0	0	0	50	1.0
60	Machal Ghu	Nandar Khel	0	0	0	0	0	0	100	0	0.0

Appendix F1: Drinking water sources in Sayed Karam district (Cont..)

S/NO.	Main village	Sub village	% of sources used: River	Canal/Joy	Well: Covered	Well: Open	Spring	Pipe water	Pond	Karez	Distance of mostly used source (Km)
61	Machal Ghu	Nora Khel	40	0	0	20	0	0	40	0	0.0
62	Machal Ghu	Pala Khel	0	100	0	0	0	0	0	0	0.0
63	Machal Ghu	Salim Khan Khel	0	0	0	50	0	0	50	0	0.0
64	Machal Ghu	Sayed Khel	100	0	0	0	0	0	0	0	0.0
65	Machal Ghu	Spina Qala	0	100	0	0	0	0	0	0	0.0
66	Machal Ghu	Taro Khel	0	0	40	60	0	0	0	0	0.0
67	Machal Ghu	Toor Khel	0	0	0	0	0	0	100	0	0.0
68	Machal Ghu	Wach Khakh Qala	100	0	0	0	0	0	0	0	0.0
69	Mawroz Khel		0	0	40	60	0	0	0	0	0.0
70	Merzaka	Azad Khel	0	0	10	30	0	0	0	60	0.0
71	Merzaka	Batay	0	0	0	60	40	0	0	0	0.7
72	Merzaka	Chanjay Khwar	0	0	0	20	80	0	0	0	0.0
73	Merzaka	Chungay	0	0	0	0	5	0	0	95	1.0
74	Merzaka	Garamay	0	0	0	0	0	0	0	100	0.5
75	Merzaka	Ghonzay	0	0	0	0	30	0	0	70	0.0
76	Merzaka	Hajian	0	50	20	30	0	0	0	0	0.5
77	Merzaka	Kajeray	0	0	0	70	30	0	0	0	0.5
78	Merzaka	Khalilan	0	0	10	10	80	0	0	0	0.0
79	Merzaka	Nora China	0	0	0	0	100	0	0	0	0.0
80	Merzakay	Serkay Tanga	0	0	0	50	50	0	0	0	0.0
81	Mia Khel		0	0	0	0	100	0	0	0	0.0
82	Naray Kalay		0	0	0	0	20	0	0	80	0.0
83	Nigram	Ainuddin Qala	0	70	0	0	0	0	0	0	1.5
84	Osman Khel	Mach	0	0	30	0	0	0	0	70	0.0
85	Osman Khel	Raza Khel	0	0	0	100	0	0	0	0	0.0
86	Qader Khel		0	0	30	70	0	0	0	0	0.0
87	Shamsherabad		0	60	40	0	0	0	0	0	0.0
88	Salam Khel	Afzal Khel	0	70	30	0	0	0	0	0	0.0
89	Salam Khel	Bike Khel	0	30	70	0	0	0	0	0	0.0
90	Salam Khel	Salu Khel	0	0	100	0	0	0	0	0	0.0

Appendix F1: Drinking water sources in Sayed Karam district (Cont..)

S/NO.	Main village	Sub village	% of sources used: River	Canal/Joy	Well: Covered	Well: Open	Spring	Pipe water	Pond	Karez	Distance of mostly used source (Km)
91	Salam Khel	Sra Qala	0	0	70	30	0	0	0	0	0.0
92	Salam Khel	Sur Sang	0	50	50	0	0	0	0	0	0.0
93	Salemi Nargay		0	0	0	0	30	0	0	70	0.0
94	Sarwar Qala		0	0	0	100	0	0	0	0	0.0
95	Sayed Khel		0	60	40	0	0	0	0	0	0.0
96	Serkay Malang		0	0	20	80	0	0	0	0	0.0
97	Sham Ghunday		0	.0	0	0	100	0	0	0	1.5
98	Spina Qala		0	0	20	0	0	0	0	80	0.0
99	Sur Sangyan		0	0	0	100	0	0	0	0	0.0
100	Talbi Khel		0	0	50	50	0	0	0	0	0.0
101	Tand Gharak	Ataei Qala	0	0	0	100	0	0	0	0	0.0
102	Tand Gharak	Fazal Khel	20	0	0	0	0	0	80	0	0.0
103	Tand Gharak	Miw Khel	0	0	0	0	0	100	0	0	0.0
104	Tand Gharak	Seway	0	0	0	0	100	0	0	0	0.6
105	Tand Gharak	Zundi Khel	20	0	0	0	0	80	0	0	0.0
106	Usman Khel	Esa Khel	0	0	40	0	0	0	0	60	0.0
107	Usman Khel	Lewanian Khel	0	0	30	70	0	0	0	0	0.0
108	Yahya Khel		0	0	0	0	0	0	0	100	0.5
109	Yargul Khel		0	50	0	50	0	0	0	0	0.0

Appendix G: Condition of roads and transportation means in Gardez district

S/No.	Main village	Sub village	Distance of village from district center (Km)	Existence of access road	Distance of village from access road (km)	Type of road			% of transportation means used				
						Good	Fairly good	Bad	Vehicle	Donkey	Hand cart	Bicycle	By foot
1	Ahangaran		0.5	Y	0.0	√	-	-	40	0	60	0	0
2	Asalatbeg		3.0	Y	0.0	-	√	-	100	0	0	0	0
3	Atam Kalay		9.0	Y	0.0	-	√	-	100	0	0	0	0
4	Awdakay		25.0	Y	0.0	-	-	√	80	20	0	0	0
5	Bala Deh	Afzal Khel	7.5	Y	0.0	-	√	-	80	20	0	0	0
6	Bala Deh	Bala Deh	7.0	Y	0.0	-	√	-	80	20	0	0	0
7	Bala Deh	Raies Khel	6.5	Y	0.0	-	√	-	95	5	0	0	0
8	Bala Deh	Rodak	4.0	Y	0.0	-	√	-	100	0	0	0	0
9	Banozai	Bano zai	6.0	Y	0.0	-	√	-	100	0	0	0	0
10	Banozai	Darabal Kalay	6.0	Y	0.0	√	-	-	100	0	0	0	0
11	Banozai	Salar Kalay	6.0	Y	0.0	-	√	-	100	0	0	0	0
12	Chakan Shekhan		7.0	Y	0.0	-	√	-	100	0	0	0	0
13	Chawanay	Metran Khel	7.0	Y	0.0	-	√	-	100	0	0	0	0
14	Chawanay	Pahlawan Khel	8.0	Y	0.0	-	-	√	50	30	20	0	15
15	Chawanay	Rabati	9.0	Y	0.0	-	√	-	80	20	0	0	0
16	Dara		12.0	Y	0.0	-	-	√	70	30	0	0	0
17	Dawlatzai	Habib Khel	5.0	Y	0.0	-	√	-	70	30	0	0	0
18	Dawlatzai	Laghar	6.0	Y	0.0	-	√	-	80	20	0	0	0
19	Dawlatzai	Ali Jan Khel	2.0	Y	0.0	-	√	-	40	40	20	0	0
20	Dawlatzai	Dray Plari	4.0	Y	0.0	-	√	-	100	0	0	0	0
21	Dawlatzai	Fathullah	4.0	Y	0.0	-	√	-	70	0	30	0	0
22	Dawlatzai	Gadai Khel	1.5	Y	0.0	-	√	-	70	0	0	30	0
23	Dawlatzai	Gajan	3.5	Y	0.0	-	√	-	80	20	0	0	0
24	Dawlatzai	Ghunday Kalay	2.5	Y	0.0	-	√	-	50	50	0	0	0
25	Dinar Khel		15.0	Y	0.0	-	√	-	100	0	0	0	0
26	Doghabad		2.0	Y	0.0	-	√	-	100	0	0	0	0

Appendix G: Condition of roads and transportation means in Gardez district (Cont..)

S/No.	Main village	Sub village	Distance of village from district center (Km)	Existence of access road	Distance of village from access road (km)	Type of road: Good	Type of road: Fairly good	Type of road: Bad	% of transportation means used: Vehicle	Donkey	Hand cart	Bicycle	By foot
27	Golo Khel		7.5	Y	0.0	-	√	-	100	0	0	0	0
28	Golowall	Bar Golowall	5.0	Y	0.0	-	√	-	100	0	0	0	0
29	Golowall	Kuz Golowal	6.0	Y	0.0	-	√	-	100	0	0	0	0
30	Hemat Khel		8.5	Y	0.0	-	√	-	100	0	0	0	0
31	Ibrahim Khel	Azami Khel	11.0	Y	0.0	-	-	√	100	0	0	0	0
32	Ibrahim Khel	Bada Khel	7.0	Y	0.0	-	√	-	100	0	0	0	0
33	Ibrahim Khel	Ghani Qala	10.0	Y	0.0	-	√	-	100	0	0	0	0
34	Ibrahim Khel	Karama Khel	6.0	Y	0.0	-	√	-	50	50	0	0	0
35	Ibrahim Khel	Mashad Khel	11.0	Y	0.0	-	√	-	100	0	0	0	0
36	Ibrahim Khel	Pakhary	15.0	Y	0.0	-	-	√	70	30	0	0	0
37	Ibrahim Khel	Pirzad Khel	5.5	Y	0.0	-	-	√	100	0	0	0	0
38	Ibrahim Khel	Rahmat Khel	9.0	Y	0.0	-	√	-	80	20	0	0	0
39	Ibrahim Khel	Raza Khel	8.0	Y	0.0	-	√	-	50	0	50	0	0
40	Ibrahim Khel	Sadiq Khel	4.0	Y	0.0	-	√	-	80	20	0	0	0
41	Ibrahim Khel	Sarwar Khel	15.0	Y	0.0	-	-	√	100	0	0	0	0
42	Ibrahim Khel	Tabiban	13.0	Y	0.0	-	√	-	100	0	0	0	0
43	Ibrahim Khel	Tan Khan Khe	9.0	Y	0.0	-	√	-	70	30	0	0	0
44	Ibrahim Khel	Walyan	5.0	Y	0.0	-	√	-	60	20	0	20	0
45	Karmashi		2.0	Y	0.0	-	√	-	10	90	0	0	0
46	Khan Qala		18.0	Y	0.0	-	√	-	30	70	0	0	0
47	Khataba	Sadiq Khel	5.0	Y	0.0	-	√	-	60	0	40	0	0
48	Khataba	Shakar Khel	2.0	Y	0.0	-	√	-	40	20	40	0	0
49	Khataba	Shekhano Qala	4.0	Y	0.0	-	√	-	100	0	0	0	0
50	Khwaja Hassan	Khwaja Hassan Ulya	1.0	Y	0.0	√	-	-	10	0	90	0	0
51	Khwaja Hassan	Khwaja Hassan Sufla	0.5	Y	0.0	√	-	-	5	0	95	0	0
52	Kochi Khel		2.0	Y	0.0	-	√	-	50	50	0	0	0

Appendix G: Condition of roads and transportation means in Gardez district (Cont..)

S/No.	Main village	Sub village	Distance of village from district center (Km)	Existence of access road	Distance of village from access road (km)	Type of road: Good	Type of road: Fairly good	Type of road: Bad	% of transportation means used: Vehicle	Donkey	Hand cart	Bicycle	By foot
53	Kwash	Azgana	12.0	Y	0.0	-	√	-	60	40	0	0	0
54	Kwash	Bar Kwash	10.0	Y	0.0	-	√	-	100	0	0	0	0
55	Kwash	Koz Kwash	12.0	Y	0.0	-	√	-	100	0	0	0	0
56	Kwash	Pakhari	13.0	N	1.0	-	-	-	0	90	0	0	10
57	Mahmud Qala		8.0	Y	0.0	-	√	-	100	0	0	0	0
58	Malik Khel		1.5	Y	0.0	-	√	-	20	30	50	0	0
59	Melan	Doaba	8.0	Y	0.0	-	√	-	70	30	0	0	0
60	Melan	Habib Qala	7.0	Y	0.0	-	√	-	50	50	0	0	0
61	Melan	Hajiano Kalay	6.0	Y	0.0	-	√	-	70	30	0	0	0
62	Melan	Melan	12.0	Y	0.0	-	√	-	30	70	0	0	0
63	Melan	Shekhan	10.0	Y	0.0	√	-	-	80	20	0	0	0
64	Mia Noor Qala		4.5	Y	0.0	-	√	-	100	0	0	0	0
65	Mohd Raza Khel		12.0	Y	0.0	-	-	√	50	50	0	0	0
66	Mumray		3.0	Y	0.0	-	√	-	60	40	0	0	0
67	Niazi Qala		6.0	Y	0.0	-	√	-	60	40	0	0	0
68	Nisti Kot	Kuz Nistikot	9.0	Y	0.0	-	√	-	100	0	0	0	0
69	Nistikot	Bar Nistikot	9.0	Y	0.0	-	√	-	100	0	0	0	0
70	Pushta		6.0	Y	0.0	-	√	-	60	40	0	0	0
71	Qala-e-Arjal		1.5	Y	0.0	-	√	-	10	0	90	0	0
72	Qala-e-Dahbashi		5.0	Y	0.0	-	√	-	60	30	0	10	0
73	Qala-e-Halim		3.0	Y	0.0	√	-	-	40	60	0	0	0
74	Qala-e-Sarsang		0.5	Y	0.0	-	√	-	30	0	70	0	0
75	Qala-e-Sayedan		1.0	Y	0.0	-	√	-	20	65	15	0	0
76	Qala-e-Zargar		4.0	Y	0.0	-	√	-	70	30	0	0	0
77	Rabat	Rabat	7.0	Y	0.0	-	√	-	80	20	0	0	0
78	Rabat	Shah-e-Qadam	10.0	Y	0.0	-	√	-	70	30	0	0	0

Appendix G: Condition of roads and transportation means in Gardez district (Cont..)

S/No.	Main village	Sub village	Distance of village from district center (Km)	Existence of access road	Distance of village from access road (km)	Type of road: Good	Type of road: Fairly good	Type of road: Bad	% of transportation means used: Vehicle	Donkey	Hand cart	Bicycle	By foot
79	Sadat Khel		8.5	Y	0.0	-	√	-	100	0	0	0	0
80	Saidan	Mashayan	3.0	Y	0.0	-	√	-	70	0	0	0	30
81	Saparai		16.0	Y	0.0	-	√	-	100	0	0	0	0
82	Sarkary Qala		12.0	Y	0.0	-	√	-	100	0	0	0	0
83	Sepahi Khel		17.0	Y	0.0	-	√	-	50	50	0	0	0
84	Shahr-e-Naw		0.5	Y	0.0	√	-	-	10	0	90	0	0
85	Shekhan		11.0	Y	0.0	-	-	√	100	0	0	0	0
86	Shekhan		2.0	Y	0.0	-	√	-	70	30	0	0	0
87	Shekhan		13.0	Y	0.0	-	√	-	90	10	0	0	0
88	Talbi Khel		8.5	Y	0.0	-	√	-	100	0	0	0	0
89	Teray	Azad Khan Khel	14.0	Y	0.0	-	-	√	100	0	0	0	0
90	Teray	Bagho Kalay	13.0	Y	0.0	√	-	-	100	0	0	0	0
91	Teray	Charmakhkay	6.0	Y	0.0	-	√	-	100	0	0	0	0
92	Teray	Fazal Qala	10.0	Y	0.0	√	-	-	100	0	0	0	0
93	Teray	Ghafur Khel	13.0	Y	0.0	√	-	-	100	0	0	0	0
94	Teray	Kuz Lewan	10.0	Y	0.0	-	√	-	100	0	0	0	0
95	Teray	Lewanian	7.0	Y	0.0	√	-	-	100	0	0	0	0
96	Teray	Lewan	8.5	Y	0.0	-	√	-	100	0	0	0	0
97	Teray	Momin Khel	10.0	Y	0.0	-	√	-	100	0	0	0	0
98	Teray	Nawrakay	14.0	Y	0.0	-	√	-	100	0	0	0	0
99	Teray	Samad Khel	8.0	Y	0.0	-	√	-	100	0	0	0	0
100	Teray	Spina Qala	10.0	Y	0.0	-	√	-	100	0	0	0	0
101	Teray	Sra Qala	8.0	Y	0.0	-	√	-	100	0	0	0	0
102	Teray	Tandan	15.0	Y	0.0	-	√	-	100	0	0	0	0
103	Teray	Tarkanan	7.0	Y	0.0	-	√	-	100	0	0	0	0

Appendix G: Condition of roads and transportation means in Gardez district (Cont..)

S/No.	Main village	Sub village	Distance of village from district center (Km)	Existence of access road	Distance of village from access road (km)	Type of road			% of transportation means used				
						Good	Fairly good	Bad	Vehicle	Donkey	Hand cart	Bicycle	By foot
104	Teray	Woch Khakh	16.0	Y	0.0	-	√	-	100	0	0	0	0
105	Utmanay		18.0	Y	0.0	-	√	-	60	40	0	0	0
106	Woch Gharak		18.0	Y	0.0	-	√	-	100	0	0	0	0
107	Zawa		21.0	Y	0.0	-	√	-	80	20	0	0	0

Appendix G1: Condition of roads and transportation means in Sayed Karam district

S/No.	Main village	Sub village	Distance of village from district center (Km)	Existence of access road	Distance of village from access road (km)	Type of road			% of transportation means used				
						Good	Fairly good	Bad	Vehicle	Donkey	Hand cart	Bicycle	By foot
1	Ahmad Shah Khel		11.0	Y	0.0	-	-	√	40	60	0	0	0
2	Andwam		18.0	Y	0.0	-	√	-	50	50	0	0	0
3	Arab Khel		14.0	Y	0.0	-	√	-	60	40	0	0	0
4	Ashpan		15.0	Y	0.0	-	-	√	50	50	0	0	0
5	Bar Sejenak		15.0	Y	0.0	-	-	√	60	40	0	0	0
6	Bar Sejenak	Alamgay	11.0	Y	0.0	-	√	-	95	5	0	0	0
7	Batyan Khel		14.0	Y	0.0	-	√	-	100	0	0	0	0
8	Cher Rakay		21.0	Y	0.0	-	-	√	80	20	0	0	0
9	Chino	Chino	2.0	Y	0.0	-	√	-	80	20	0	0	0
10	Chino	Chino Sar	32.0	Y	0.0	-	-	√	50	50	0	0	0
11	Chino	Durrani	2.5	Y	0.0	-	√	-	90	10	0	0	0
12	Dam	Ayubi	19.0	Y	0.0	-	√	-	100	0	0	0	0
13	Dam	Khogory	20.0	Y	0.0	-	√	-	50	50	0	0	0
14	Dam	Mir Ail Khel	19.0	Y	0.0	-	√	-	100	0	0	0	0
15	Dawlat Khel		13.0	Y	0.0	-	√	-	70	30	0	0	0
16	Gharak	Talkhan	15.0	Y	0.0	-	√	-	100	0	0	0	0
17	Ghonday		16.0	Y	0.0	-	√	-	100	0	0	0	0
18	Ghwareza		11.0	Y	0.0	-	√	-	80	20	0	0	0
19	Gud Mangal Qala		2.5	Y	0.0	-	√	-	100	0	0	0	0
20	Isa Khel		11.0	Y	0.0	-	√	-	100	0	0	0	0
21	Jangi Khel		13.0	Y	0.0	-	√	-	80	20	0	0	0
22	Kalgar	Mohd Amin Khel	16.0	Y	0.0	-	-	√	100	0	0	0	0
23	Kamran Khel		11.5	Y	0.0	-	-	√	70	30	0	0	0
24	Karezgay		12.0	Y	0.0	-	√	-	50	50	0	0	0
25	Kerkin	Gorandi Shekhan	24.0	Y	0.0	-	-	√	60	40	0	0	0
26	Kerkin	Jan Ghunday	22.0	Y	0.0	-	-	√	100	0	0	0	0

3. AGRICULTURE

3.1 Farm Size

The conducive natural features of the surveyed areas make the environment suitable for agricultural activities. The survey revealed that farming is a major activity generating a good return which to some extent can meet the subsistence requirements of the residents. This is especially important now that off farm employment opportunities have diminished by the absence of a stable government.

Table 3.1: Farm size

District	No. of villages surveyed	Arable land (Jerib)		Cultivated land (Jerib)		% Use of cultivated		Abandoned (Jerib)	
		irrigated	rianfed	Irrigated	rianfed	double cropped	single cropped	irrigated	rianfed
Gardez	109	42604	24040	18725	5185	0	100	23879	18855
Sayed karam	109	25492	36130	15092	18005	0	100	10400	18125

The total amount of arable land was estimated at 128,266 jeribs in the surveyed area. 33,817 jeribs of irrigated and 23,190 jeribs of rainfed land was cultivated, while 71,259 jeribs was found to be abandoned at the time of survey. Double cropping is not common in the surveyed area. All of the land in Gardez and Sayed Karam districts is single cropped (see Table 3.1 and Appendix H-H1).

Table 3.2: Reasons for land abandonment

District	No. of villages surveyed	Mines	Shortage of Irrigation water	Lack of farm power	Others
Gardez	109	8	96	29	38
Sayed Karam	109	1	75	21	59

<u>List of others</u>

Karez damaged by flood
Lack of precipitation
Owner of land is refugee
Protection wall
Controversial

Shortage of irrigation water was the main reason for land abandonment. Lack of farm power and existence of mines were recorded in 59 villages. A total of 97 villages cited a group of problems such as karez damaged by floods, lack of precipitation, protection wall and the owner of the land being a refugee as the main reasons for land abandonment (see Table 3.2 and Appendix H-H1).

Appendix G1: Condition of roads and transportation means in Sayed Karam district (Cont..)

S/No.	Main village	Sub village	Distance of village from district center (Km)	Existence of access road	Distance of village from access road (km)	Type of road: Good	Type of road: Fairly good	Type of road: Bad	% of transportation means used: Vehicle	Donkey	Hand cart	Bicycle	By foot
27	Kerkin	Selarai	26.0	Y	0.0	-	-	√	30	50	0	0	20
28	Kerkin	Sru Kholeh	30.0	Y	0.0	-	-	√	50	50	0	0	0
29	Kerkin	Sur Petaw	27.0	Y	0.0	-	-	√	45	35	0	0	20
30	Kerkin	Wocha Lagada	29.0	Y	0.0	-	-	√	40	60	0	0	0
31	Kerkin Kholeh		23.0	Y	0.0	-	√	-	100	0	0	0	0
32	Khanak Khel		10.0	Y	0.0	-	√	-	100	0	0	0	0
33	Khand Khel	Khand Khel	5.0	Y	0.0	-	√	-	40	40	0	0	20
34	Khand Khel	Lalak Kalay	6.0	Y	0.0	-	√	-	100	0	0	0	0
35	Khawajar Khel		11.0	Y	0.0	-	√	-	100	0	0	0	0
36	Kosin	Bar Khano Khel	18.0	Y	0.0	-	-	√	50	50	0	0	0
37	Kosin	Gorgori Qala	5.0	Y	0.0	-	√	-	70	30	0	0	0
38	Kosin	Kalgar	6.0	Y	0.0	-	√	-	70	30	0	0	0
39	Kosin	Khoshal Khel	10.0	Y	0.0	-	-	√	80	20	0	0	0
40	Kosin	Kuz Khano Khel	6.0	Y	0.0	-	-	√	70	30	0	0	0
41	Kosin	Masak Karez	4.0	Y	0.0	-	√	-	90	10	0	0	0
42	Kosin	Shayasta Kalay	7.0	Y	0.0	-	-	√	60	40	0	0	0
43	Kosin	Shekhan	4.0	Y	0.0	-	-	√	40	60	0	0	0
44	Kotkay		0.0	Y	0.0	-	√	-	100	0	0	0	0
45	Koz Feroz Khel		14.0	Y	0.0	-	√	-	50	50	0	0	0
46	Kunder Khel		2.0	Y	0.0	-	√	-	70	30	0	0	0
47	Kuz Sejenak	Kuz Sejenak	15.0	Y	0.0	-	-	√	80	20	0	0	0
48	Kuz Sejenak	Tarai	10.0	Y	0.0	-	-	√	40	60	0	0	0
49	Machal Ghu	Akbar Khel	13.0	Y	0.0	-	√	-	100	0	0	0	0
50	Machal Ghu	Babakrey	20.0	Y	0.0	-	√	-	100	0	0	0	0
51	Machal Ghu	Bazu Khel	13.0	Y	0.0	-	√	-	100	0	0	0	0
52	Machal Ghu	Gandir Khel	15.0	Y	0.0	-	√	-	100	0	0	0	0

Appendix G1: Condition of roads and transportation means in Sayed Karam district (Cont..)

S/No.	Main village	Sub village	Distance of village from district center (Km)	Existence of access road	Distance of village from access road (km)	Type of road			% of transportation means used				
						Good	Fairly good	Bad	Vehicle	Donkey	Hand cart	Bicycle	By foot
53	Machal Ghu	Godian	16.0	Y	0.0	-	√	-	100	0	0	0	0
54	Machal Ghu	Hassan Qala	5.0	Y	0.0	-	√	-	100	0	0	0	0
55	Machal Ghu	Lewan	17.0	Y	0.0	-	√	-	100	0	0	0	0
56	Machal Ghu	Mado Khel	12.0	Y	0.0	-	√	-	100	0	0	0	0
57	Machal Ghu	Mamozai	10.0	Y	0.0	-	√	-	100	0	0	0	0
58	Machal Ghu	Mulla Khel	13.0	Y	0.0	-	√	-	100	0	0	0	0
59	Machal Ghu	Nagram	5.0	Y	0.0	-	√	-	100	0	0	0	0
60	Machal Ghu	Nandar Khel	12.0	Y	0.0	-	√	-	100	0	0	0	0
61	Machal Ghu	Nora Khel	15.0	Y	0.0	-	√	-	100	0	0	0	0
62	Machal Ghu	Pala Khel	21.0	Y	0.0	-	√	-	100	0	0	0	0
63	Machal Ghu	Salim Khan Khel	14.0	Y	0.0	-	√	-	100	0	0	0	0
64	Machal Ghu	Sayed Khel	16.0	Y	0.0	-	√	-	100	0	0	0	0
65	Machal Ghu	Spina Qala	15.0	Y	0.0	-	√	-	100	0	0	0	0
66	Machal Ghu	Taro Khel	14.0	Y	0.0	-	√	-	80	20	0	0	0
67	Machal Ghu	Toor Khel	13.0	Y	0.0	-	√	-	100	0	0	0	0
68	Machal Ghu	Wach Khakh Qala	18.0	Y	0.0	-	√	-	100	0	0	0	0
69	Mawroz Khel		11.0	Y	0.0	-	-	√	95	5	0	0	0
70	Merzaka	Azad Khel	14.0	Y	0.0	-	√	-	70	30	0	0	0
71	Merzaka	Batay	12.0	Y	0.0	-	√	-	70	30	0	0	0
72	Merzaka	Chanjay Khwar	13.0	Y	0.0	-	√	-	70	30	0	0	0
73	Merzaka	Chungay	16.0	Y	0.0	-	√	-	50	50	0	0	0
74	Merzaka	Garamay	16.0	Y	0.0	-	√	-	70	30	0	0	0
75	Merzaka	Ghonzay	17.0	Y	0.0	-	-	√	70	30	0	0	0
76	Merzaka	Hajian	13.0	Y	0.0	-	√	-	60	40	0	0	0
77	Merzaka	Kajeray	15.0	Y	0.0	-	√	-	60	40	0	0	0
78	Merzaka	Khalilan	13.0	Y	0.0	-	√	-	80	20	0	0	0

Appendix G1: Condition of roads and transportation means in Sayed Karam district (Cont..)

S/No.	Main village	Sub village	Distance of village from district center (Km)	Existence of access road	Distance of village from access road (km)	Type of road			% of transportation means used				
						Good	Fairly good	Bad	Vehicle	Donkey	Hand cart	Bicycle	By foot
79	Merzaka	Nora China	18.0	Y	0.0	-	√	-	100	0	0	0	0
80	Merzakay	Serkay Tanga	16.0	Y	0.0	-	√	-	80	20	0	0	0
81	Mia Khel		9.0	Y	0.0	-	-	√	70	0	30	0	0
82	Naray Kalay		8.0	Y	0.0	-	√	-	100	0	0	0	0
83	Nigram	Ainuddin Qala	2.0	Y	0.0	-	√	-	20	60	20	0	0
84	Osman Khel	Mach	7.0	Y	0.0	-	√	-	70	30	0	0	0
85	Osman Khel	Raza Khel	15.0	Y	0.0	-	√	-	100	0	0	0	0
86	Qader Khel		9.0	Y	0.0	-	-	√	20	80	0	0	0
87	Shamsherabad		8.5	Y	0.0	-	√	-	70	0	30	0	0
88	Salam Khel	Afzal Khel	8.0	Y	0.0	-	-	√	75	15	10	0	0
89	Salam Khel	Bike Khel	6.0	Y	0.0	-	√	-	90	10	0	0	0
90	Salam Khel	Salu Khel	7.0	Y	0.0	-	√	-	50	50	0	0	0
91	Salam Khel	Sra Qala	6.0	Y	0.0	-	√	-	80	20	0	0	0
92	Salam Khel	Sur Sang	7.0	Y	0.0	-	√	-	100	0	0	0	0
93	Salemi Nargay		22.0	Y	0.0	-	-	√	100	0	0	0	0
94	Sarwar Qala		3.5	Y	0.0	-	√	-	100	0	0	0	0
95	Sayed Khel		7.5	Y	0.0	-	-	√	70	10	20	0	0
96	Serkay Malang		7.0	Y	0.0	-	-	√	100	0	0	0	0
97	Sham Ghunday		20.0	Y	0.0	-	-	√	100	0	0	0	0
98	Spina Qala		0.5	Y	0.0	-	√	-	60	0	40	0	0
99	Sur Sangyan		9.0	Y	0.0	-	-	√	80	0	20	0	0
100	Talbi Khel		8.0	Y	0.0	-	√	-	80	20	0	0	0
101	Tand Gharak	Ataei Qala	11.0	Y	0.0	-	√	-	100	0	0	0	0
102	Tand Gharak	Fazal Khel	14.0	Y	0.0	-	√	-	100	0	0	0	0
103	Tand Gharak	Miw Khel	18.0	Y	0.0	-	√	-	100	0	0	0	0
104	Tand Gharak	Seway	16.0	Y	0.0	-	√	-	100	0	0	0	0

Appendix G1: Condition of roads and transportation means in Sayed Karam district (Cont..)

S/No.	Main village	Sub village	Distance of village from district center (Km)	Existence of access road	Distance of village from access road (km)	Type of road: Good	Type of road: Fairly good	Type of road: Bad	% of transportation means used: Vehicle	% of transportation means used: Donkey	% of transportation means used: Hand cart	% of transportation means used: Bicycle	% of transportation means used: By foot
105	Tand Gharak	Zundi Khel	14.0	Y	0.0	-	√	-	100	0	0	0	0
106	Usman Khel	Esa Khel	12.0	Y	0.0	-	√	-	80	20	0	0	0
107	Usman Khel	Lewanian Khel	13.0	Y	0.0	-	√	-	80	20	0	0	0
108	Yahya Khel		3.0	Y	0.0	-	√	-	100	0	0	0	0
109	Yargul Khel		9.0	Y	0.0	-	√	-	100	0	0	0	0

Appendix H: Farm size and reasons for abandonment in Gardez district

S/No	Main village	Sub village	Arable land(J) Irrigated	Arable land(J) Rainfed	Cultivated land(J) Irrigated	Cultivated land(J) Rainfed	Abandoned land(J) Irrigated	Abandoned land(J) Rainfed	Abandoned land(J) Reason	Type of land used (%) double cropped	Type of land used (%) single cropped
1	Ahangaran		140	0	40	0	100	0	B	0	100
2	Asalatbeg		1000	500	400	0	600	500	BCD	0	100
3	Atam Kalay		150	0	150	0	0	0		0	100
4	Awdakay		600	700	300	400	300	300	BD	0	100
5	Bala Deh	Afzal Khel	300	0	250	0	50	0	B	0	100
6	Bala Deh	Bala Deh	400	0	300	0	100	0	B	0	100
7	Bala Deh	Raies Khel	400	0	350	0	50	0	B	0	100
8	Bala Deh	Rodak	250	30	250	0	0	30	D	0	100
9	Banozai	Bano zai	1000	1200	400	100	600	1100	BC	0	100
10	Banozai	Darabal Kalay	200	250	100	50	100	200	ABC	0	100
11	Banozai	Salar Kalay	100	150	30	0	70	150	BC	0	100
12	Chakan Shekhan		100	400	20	20	80	380	BC	0	100
13	Chawanay	Metran Khel	350	50	100	0	250	50	BD	0	100
14	Chawanay	Pahlawan Khel	500	0	250	0	250	0	B	0	100
15	Chawanay	Rabati	600	1000	300	400	300	600	BC	0	100
16	Dara		1500	1200	300	0	1200	1200	ABC	0	100
17	Dawlatzai	Habib Khel	300	400	50	0	250	400	BC	0	100
18	Dawlatzai	Laghar	300	500	150	0	150	500	BC	0	100
19	Dawlatzai	Ali Jan Khel	80	800	80	0	0	800	D	0	100
20	Dawlatzai	Dray Plari	500	50	250	0	250	50	BD	0	100
21	Dawlatzai	Fathullah	1000	800	200	0	800	800	BD	0	100
22	Dawlatzai	Gadai Khel	40	0	30	0	10	0	B	0	100
23	Dawlatzai	Gajan	800	500	300	0	500	500	BCD	0	100
24	Dawlatzai	Ghunday Kalay	200	300	80	0	120	300	AB	0	100
25	Dinar Khel		150	600	30	70	120	530	B	0	100
26	Doghabad		200	0	100	0	100	0	B	0	100
27	Golo Khel		350	0	200	0	150	0	BD	0	100
28	Golowall	Bar Golowall	150	0	50	0	100	0	B	0	100
29	Golowall	Kuz Golowall	400	0	200	0	200	0	B	0	100
30	Hemat Khel		50	0	20	0	30	0	B	0	100
31	Ibrahim Khel	Azami Khel	800	150	200	0	600	150	BD	0	100

Appendix H: Farm size and reasons for abandonment in Gardez district (Cont..)

S/No	Main village	Sub village	Arable land(J)		Cultivated land(J)		Abandoned land(J)			Type of land used (%)	
			Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Reason	double cropped	single cropped
32	Ibrahim Khel	Bada Khel	450	200	200	0	250	200	BD	0	100
33	Ibrahim Khel	Ghani Qala	200	200	100	0	100	200	BD	0	100
34	Ibrahim Khel	Karama Khel	600	800	300	300	300	500	BC	0	100
35	Ibrahim Khel	Mashad Khel	250	30	150	0	100	30	BD	0	100
36	Ibrahim Khel	Pakhary	300	30	100	0	200	30	BD	0	100
37	Ibrahim Khel	Pirzad Khel	200	200	100	0	100	200	BCD	0	100
38	Ibrahim Khel	Rahmat Khel	700	300	170	0	530	300	BD	0	100
39	Ibrahim Khel	Raza Khel	40	50	20	0	20	50	BD	0	100
40	Ibrahim Khel	Sadiq Khel	300	400	150	0	150	400	BCD	0	100
41	Ibrahim Khel	Sarwar Khel	700	100	300	0	400	100	BD	0	100
42	Ibrahim Khel	Tabiban	200	0	80	0	120	0	BCD	0	100
43	Ibrahim Khel	Tan Khan Khel	130	200	60	100	70	100	BCD	0	100
44	Ibrahim Khel	Walyan	1000	200	250	0	750	200	BCD	0	100
45	Karmashi		300	0	150	0	150	0	B	0	100
46	Khan Qala		230	180	120	60	110	120	B	0	100
47	Khataba	Sadiq Khel	500	0	300	0	200	0	B	0	100
48	Khataba	Shakar Khel	500	0	200	0	300	0	B	0	100
49	Khataba	Shekhano Qala	50	90	40	0	10	90	BD	0	100
50	Khwaja Hassan	Khwaja Hassan Ulya	350	0	200	0	150	0	BC	0	100
51	Khwaja Hassan	Khwaja Hassan Sufla	300	0	200	0	100	0	B	0	100
52	Kochi Khel		800	0	600	0	200	0	B	0	100
53	Kwash	Azgana	90	100	45	0	45	100	BD	0	100
54	Kwash	Bar Kwash	80	100	20	50	60	50	B	0	100
55	Kwash	Koz Kwash	150	300	120	0	30	300	ABC	0	100
56	Kwash	Pakhari	50	80	20	0	30	80	AB	0	100
57	Mahmud Qala		300	0	300	0	0	0	-	0	100
58	Malik Khel		500	0	300	0	200	0	B	0	100
59	Melan	Doaba	250	0	100	0	150	0	B	0	100
60	Melan	Habib Qala	300	150	100	50	200	100	B	0	100
61	Melan	Hajiaano Kalay	1100	0	300	0	800	0	B	0	100
62	Melan	Melan	1200	500	400	200	800	300	BC	0	100

Appendix H: Farm size and reasons for abandonment in Gardez district (Cont..)

S/No	Main village	Sub village	Arable land(J)		Cultivated land(J)		Abandoned land(J)			Type of land used (%)	
			Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Reason	double cropped	single cropped
63	Melan	Shekhan	400	200	200	0	200	200	AC	0	100
64	Mia Noor Qala		450	500	200	0	250	500	B	0	100
65	Mohd Raza Khel		80	0	40	0	40	0	B	0	100
66	Mumray		150	200	150	0	0	200	C	0	100
67	Niazi Qala		300	400	200	250	100	150	B	0	100
68	Nisti Kot	Kuz Nistikot	200	100	80	0	120	100	BD	0	100
69	Nistikot	Bar Nistikot	1800	100	300	0	1500	100	BD	0	100
70	Pushta		400	50	100	20	300	30	B	0	100
71	Qala-e-Arjal		20	50	10	0	10	50	B	0	100
72	Qala-e-Dahbashi		160	0	80	0	80	0	B	0	100
73	Qala-e-Halim		600	30	200	0	400	30	B	0	100
74	Qala-e-Sarsang		250	0	150	0	100	0	B	0	100
75	Qala-e-Sayedan		200	0	100	0	100	0	B	0	100
76	Qala-e-Zargar		224	0	20	0	204	0	B	0	100
77	Rabat	Rabat	450	600	200	0	250	600	B	0	100
78	Rabat	Shah-e-Qadam	50	25	30	0	20	25	B	0	100
79	Sadat Khel		80	100	80	100	0	0	-	0	100
80	Saidan	Mashayan	80	0	40	0	40	0	BD	0	100
81	Saparai		300	600	100	200	200	400	BD	0	100
82	Sarkary Qala		500	500	200	0	300	500	BC	0	100
83	Sepahi Khel		250	300	80	0	170	300	BC	0	100
84	Shahr-e-Naw		0	0	0	0	0	0	-	0	100
85	Shekhan		80	100	30	0	50	100	AB	0	100
86	Shekhan		3000	0	1000	0	2000	0	BC	0	100
87	Shekhan		80	30	20	0	60	30	B	0	100
88	Talbi Khel		50	0	30	0	20	0	B	0	100
89	Teray	Azad Khan Khel	120	0	120	0	0	0	-	0	100
90	Teray	Bagho Kalay	50	200	50	0	0	200	D	0	100
91	Teray	Charmakhkay	400	300	200	100	200	200	BD	0	100
92	Teray	Fazal Qala	40	0	30	0	10	0	B	0	100
93	Teray	Ghafur Khel	80	30	40	0	40	30	AB	0	100

Appendix H: Farm size and reasons for abandonment in Gardez district (Cont..)

S/No	Main village	Sub village	Arable land(J)		Cultivated land(J)		Abandoned land(J)			Type of land used (%)	
			Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Reason	double cropped	single cropped
94	Teray	Kuz Lewan	300	100	150	0	150	100	BCD	0	100
95	Teray	Lewanian	60	80	60	0	0	80	D	0	100
96	Teray	Lewan	400	600	200	200	200	400	BC	0	100
97	Teray	Momin Khel	1800	600	900	300	900	300	BD	0	100
98	Teray	Nawrakay	200	200	100	100	100	100	BD	0	100
99	Teray	Samad Khel	80	0	30	0	50	0	B	0	100
100	Teray	Spina Qala	400	1100	300	500	100	600	BC	0	100
101	Teray	Sra Qala	700	200	400	0	300	200	BD	0	100
102	Teray	Tandan	500	1100	300	800	200	300	BCD	0	100
103	Teray	Tarkanan	400	0	200	0	200	0	B	0	100
104	Teray	Woch Khakh	300	500	200	300	100	200	BD	0	100
105	Utmanay		150	40	50	0	100	40	BD	0	100
106	Woch Gharak		700	500	700	500	0	0	-	0	100
107	Zawa		700	815	50	15	650	800	BC	0	100

Reason for abandonment of land: A = Mines
B = Shortage of irrigation water
C = Lack of farm power
D = Other (Karez damaged by flood, Owner of land is refugee, Protection wall, Controversial, Lack of precipitation)

Appendix H1: Farm size and reasons for abandonment in Sayed Karam district

S/No	Main village	Sub village	Arable land(J)		Cultivated land(J)		Abandoned land(J)			Type of land used (%)	
			Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Reason	double cropped	single cropped
1	Ahmad Shah Khel		200	30	170	0	30	30	BC	0	100
2	Andwam		100	400	100	300	0	100	BD	0	100
3	Arab Khel		50	15	40	0	10	15	B	0	100
4	Ashpan		60	250	40	200	20	50	BD	0	100
5	Bar Sejenak		800	4000	600	2000	200	2000	BD	0	100
6	Bar Sejenak	Alamgay	15	300	15	200	0	100	D	0	100
7	Batyan Khel		20	0	10	0	10	0	BC	0	100
8	Cher Rakay		30.	500	30	0	0	500	D	0	100
9	Chino	Chino	500	0	300	0	200	0	B	0	100
10	Chino	Chino Sar	200	400	200	400	0	0	-	0	100
11	Chino	Durrani	500	100	500	0	0	100	D	0	100
12	Dam	Ayubi	200	400	70	200	130	200	BD	0	100
13	Dam	Khogory	90	300	60	30	30	270	BD	0	100
14	Dam	Mir Ail Khel	70	150	25	50	45	100	BD	0	100
15	Dawlat Khel		100	0	70	0	30	0	BC	0	100
16	Gharak	Talkhan	500	0	100	0	400	0	B	0	100
17	Ghonday		200	300	75	150	125	150	BD	0	100
18	Ghwareza		100	50	50	10	50	40	B	0	100
19	Gud Mangal Qala		500	0	500	0	0	0	-	0	100
20	Isa Khel		1500	0	1200	0	300	0	B	0	100
21	Jangi Khel		200	0	50	0	150	0	B	0	100
22	Kalgar	Mohd Amin Khel	50	0	30	0	20	0	BC	0	100
23	Kamran Khel		450	0	300	0	150	0	BC	0	100
24	Karezgay		20	600	20	600	0	0	-	0	100
25	Kerkin	Gorandi Shekhan	12	200	12	200	0	0	-	0	100
26	Kerkin	Jan Ghunday	30	30	30	30	0	0	-	0	100
27	Kerkin	Selarai	50	300	50	150	0	150	D	0	100
28	Kerkin	Sru Kholeh	50	200	50	200	0	0	-	0	100
29	Kerkin	Sur Petaw	25	50	25	25	0	25	D	0	100
30	Kerkin	Wocha Lagada	300	200	80	100	220	100	BD	0	100
31	Kerkin Kholeh		100	100	100	50	0	50	D	0	100

Appendix H1: Farm size and reasons for abandonment in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Arable land(J) Irrigated	Arable land(J) Rainfed	Cultivated land(J) Irrigated	Cultivated land(J) Rainfed	Abandoned land(J) Irrigated	Abandoned land(J) Rainfed	Abandoned land(J) Reason	Type of land used (%) double cropped	Type of land used (%) single cropped
32	Khanak Khel		80	0	80	0	0	0	-	0	100
33	Khand Khel	Khand Khel	1000	4000	400	3000	600	1000	AB	0	100
34	Khand Khel	Lalak Kalay	60	150	30	100	30	50	BD	0	100
35	Khawajar Khel		350	350	250	250	100	100	BC	0	100
36	Kosin	Bar Khano Khel	300	0	300	0	0	0	-	0	100
37	Kosin	Gorgori Qala	200	250	50	250	150	0	B	0	100
38	Kosin	Kalgar	750	2000	150	400	600	1600	BCD	0	100
39	Kosin	Khoshal Khel	1000	1200	400	100	600	1100	BD	0	100
40	Kosin	Kuz Khano Khel	400	800	100	800	300	0	BC	0	100
41	Kosin	Masak Karez	100	80	20	40	80	40	BCD	0	100
42	Kosin	Shayasta Kalay	200	0	100	0	100	0	B	0	100
43	Kosin	Shekhan	400	300	200	200	200	100	BD	0	100
44	Kotkay		500	600	200	400	300	200	BC	0	100
45	Koz Feroz Khel		200	0	70	0	130	0	BC	0	100
46	Kunder Khel		500	30	500	30	0	0	-	0	100
47	Kuz Sejenak	Kuz Sejenak	800	500	160	200	640	300	BCD	0	100
48	Kuz Sejenak	Tarai	30	100	20	70	10	30	BD	0	100
49	Machal Ghu	Akbar Khel	30	250	30	200	0	50	CD	0	100
50	Machal Ghu	Babakrey	150	0	100	0	50	0	B	0	100
51	Machal Ghu	Bazu Khel	300	1500	150	0	150	1500	BD	0	100
52	Machal Ghu	Gandir Khel	30	100	30	0	0	100	BD	0	100
53	Machal Ghu	Godian	60	150	60	0	0	150	BD	0	100
54	Machal Ghu	Hassan Qala	200	200	100	100	100	100	BD	0	100
55	Machal Ghu	Lewan	100	300	20	150	80	150	BD	0	100
56	Machal Ghu	Mado Khel	1000	640	1000	640	0	0	-	0	100
57	Machal Ghu	Mamozai	600	800	400	300	200	500	BD	0	100
58	Machal Ghu	Mulla Khel	200	0	50	0	150	0	B	0	100
59	Machal Ghu	Nagram	280	300	110	100	170	200	BD	0	100
60	Machal Ghu	Nandar Khel	140	140	100	100	40	40	BD	0	100
61	Machal Ghu	Nora Khel	50	125	50	0	0	125	CD	0	100
62	Machal Ghu	Pala Khel	200	150	200	150	0	0	-	0	100

Of 218 villages, 18 villages have orchards on a total of 2,020 jeribs of land. Furthermore, there are 18 villages having 31 fruit nurseries on 33 jeribs of land and five forest nurseries on four jeribs of land (see Table 3.3 and Appendix I-I1).

Table 3.3: Orchards and nurseries

District	No. of villages surveyed	Total jerib of orchard	No. of village having nurseries	Acreage of			
				fruit nurseries		forest nurseries	
				No.	Jerib	No.	Jerib
Gardez	109	989	10	20	20	0	0
Sayed Karam	109	1031	8	11	13	5	4

3.2 Main crops grown

The main cereal crops grown in the surveyed area are irrigated and rainfed wheat, rice and maize. Growing of vegetables such as onions, potatoes and tomatoes and fruits such as grapes, plums, mulberries, pomegranates, apples, apricots and water melons was also reported in Gardez and Sayed Karam (for more crops and their yield see Table 3.4 and Appendix J-J1).

Table 3.4: Main crops grown

Name of crops grown	No. of villages growing	Average yield seer/jrib	Average yield seer/tree
Gardez			
Irrigaged wheat	106	62	
Rainfed wheat	16	21	
Rice	10	66	
Maize	86	56	
Onion	17	209	
Potatoes	39	247	
Tomatoes	1	200	
Barley	15	54	
Bean	35	25	
Lentle	1	100	
Mung Bean	5	23	
Water Melon	1	200	
Apple	30		5
Apricot	39		7
Grape	5		4
Pomegranate	1		3
Mulberry	2		3
Plum	1		5
Walnut	1		8
Sayed Karam			
Irrigaged wheat	107	58	
Rainfed wheat	37	17	
Rice	12	66	
Maize	93	62	
Onion	11	147	

Appendix H1: Farm size and reasons for abandonment in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Arable land(J) Irrigated	Arable land(J) Rainfed	Cultivated land(J) Irrigated	Cultivated land(J) Rainfed	Abandoned land(J) Irrigated	Abandoned land(J) Rainfed	Abandoned land(J) Reason	Type of land used (%) double cropped	Type of land used (%) single cropped
63	Machal Ghu	Salim Khan Khel	490	0	120	0	370	0	B	0	100
64	Machal Ghu	Sayed Khel	420	300	200	0	220	300	BD	0	100
65	Machal Ghu	Spina Qala	150	300	50	100	100	200	BD	0	100
66	Machal Ghu	Taro Khel	350	400	350	200	0	200	D	0	100
67	Machal Ghu	Toor Khel	400	0	100	0	300	0	B	0	100
68	Machal Ghu	Wach Khakh Qala	60	200	40	50	20	150	BD	0	100
69	Mawroz Khel		50	0	35	0	15	0	BC	0	100
70	Merzaka	Azad Khel	300	600	150	200	150	400	BCD	0	100
71	Merzaka	Batay	400	1000	400	600	0	400	BD	0	100
72	Merzaka	Chanjay Khwar	50	200	50	50	0	150	D	0	100
73	Merzaka	Chungay	40	250	25	200	15	50	BD	0	100
74	Merzaka	Garamay	200	500	100	50	100	450	BD	0	100
75	Merzaka	Ghonzay	260	240	50	100	210	140	BD	0	100
76	Merzaka	Hajian	40	200	40	200	0	0	-	0	100
77	Merzaka	Kajeray	300	1000	300	500	0	500	D	0	100
78	Merzaka	Khalilan	200	350	100	50	100	300	BD	0	100
79	Merzaka	Nora China	30	100	20	50	10	50	BD	0	100
80	Merzakay	Serkay Tanga	30	200	30	100	0	100	D	0	100
81	Mia Khel		100	0	40	0	60	0	B	0	100
82	Naray Kalay		40	100	40	60	0	40	C	0	100
83	Nigram	Ainuddin Qala	80	300	50	100	30	200	BD	0	100
84	Osman Khel	Mach	250	600	150	200	100	400	BD	0	100
85	Osman Khel	Raza Khel	400	300	30	200	370	100	BD	0	100
86	Qader Khel		100	0	100	0	0	0	-	0	100
87	Shamsherabad		200	0	200	0	0	0	-	0	100
88	Salam Khel	Afzal Khel	120	0	120	0	0	0	-	0	100
89	Salam Khel	Bike Khel	30	100	30	100	0	0	-	0	100
90	Salam Khel	Salu Khel	70	0	60	0	10	0	B	0	100
91	Salam Khel	Sra Qala	150	0	120	0	30	0	B	0	100
92	Salam Khel	Sur Sang	50	150	50	80	0	70	C	0	100
93	Salemi Nargay		110	50	60	15	50	35	BD	0	100

Appendix H1: Farm size and reasons for abandonment in Sayed Karam district (Cont..)

S/No	Main village	Sub village	Arable land(J) Irrigated	Arable land(J) Rainfed	Cultivated land(J) Irrigated	Cultivated land(J) Rainfed	Abandoned land(J) Irrigated	Abandoned land(J) Rainfed	Abandoned land(J) Reason	Type of land used (%) double cropped	Type of land used (%) single cropped
94	Sarwar Qala		200	400	100	300	100	100	BD	0	100
95	Sayed Khel		120	50	120	0	0	50	D	0	100
96	Serkay Malang		250	300	50	100	200	200	BD	0	100
97	Sham Ghunday		120	100	50	60	70	40	BD	0	100
98	Spina Qala		200	300	150	50	50	250	B	0	100
99	Sur Sangyan		70	0	60	0	10	0	BC	0	100
100	Talbi Khel		60	50	60	0	0	50	D	0	100
101	Tand Gharak	Ataei Qala	70	200	10	100	60	100	BD	0	100
102	Tand Gharak	Fazal Khel	200	500	200	300	0	200	BD	0	100
103	Tand Gharak	Miw Khel	20	150	20	15	0	135	BD	0	100
104	Tand Gharak	Seway	40	100	20	50	20	50	BD	0	100
105	Tand Gharak	Zundi Khel	900	2000	300	1000	600	1000	BCD	0	100
106	Usman Khel	Esa Khel	100	400	100	200	0	200	-	0	100
107	Usman Khel	Lewanian Khel	300	100	200	50	100	50	B	0	100
108	Yahya Khel		60	100	30	100	30	0	B	0	100
109	Yargul Khel		80	50	80	0	0	50	C	0	100

Reason for abandonment of land: A = Mines
B = Shortage of irrigation water
C = Lack of farm power
D = Other (Owner of land is refugee, Controversial, Lack of precipitation)

Appendix I: Orchards and fruit nurseries in Gardez district

S/No	Main village	Sub village	Orchard(J)	Nurseries No.	Nurseries Acreage (J)
1	Ahangaran		10.0	1	2.00
2	Asalatbeg		0.0	0	0.00
3	Atam Kalay		3.0	0	0.00
4	Awdakay		0.0	0	0.00
5	Bala Deh	Afzal Khel	4.0	0	0.00
6	Bala Deh	Bala Deh	10.0	1	1.00
7	Bala Deh	Raies Khel	15.0	1	1.00
8	Bala Deh	Rodak	30.0	0	0.00
9	Banozai	Bano zai	3.0	0	0.00
10	Banozai	Darabal Kalay	6.0	0	0.00
11	Banozai	Salar Kalay	0.0	0	0.00
12	Chakan Shekhan		2.0	0	0.00
13	Chawanay	Metran Khel	5.0	0	0.00
14	Chawanay	Pahlawan Khel	5.0	0	0.00
15	Chawanay	Rabati	10.0	0	0.00
16	Dara		5.0	0	0.00
17	Dawlatzai	Habib Khel	6.0	0	0.00
18	Dawlatzai	Laghar	2.0	0	0.00
19	Dawlatzai	Ali Jan Khel	3.0	0	0.00
20	Dawlatzai	Dray Plari	4.0	0	0.00
21	Dawlatzai	Fathullah	60.0	6	4.00
22	Dawlatzai	Gadai Khel	0.0	0	0.00
23	Dawlatzai	Gajan	2.0	0	0.00
24	Dawlatzai	Ghunday Kalay	2.0	2	1.00
25	Dinar Khel		25.0	2	2.00
26	Doghabad		5.0	0	0.00
27	Golo Khel		0.0	0	0.00
28	Golowall	Bar Golowall	10.0	0	0.00
29	Golowall	Kuz Golowall	4.0	0	0.00
30	Hemat Khel		5.0	0	0.00
31	Ibrahim Khel	Azami Khel	0.0	0	0.00
32	Ibrahim Khel	Bada Khel	3.0	0	0.00
33	Ibrahim Khel	Ghani Qala	0.0	0	0.00
34	Ibrahim Khel	Karama Khel	4.0	0	0.00
35	Ibrahim Khel	Mashad Khel	0.0	0	0.00
36	Ibrahim Khel	Pakhary	0.0	0	0.00
37	Ibrahim Khel	Pirzad Khel	4.0	0	0.00
38	Ibrahim Khel	Rahmat Khel	4.0	0	0.00
39	Ibrahim Khel	Raza Khel	0.0	0	0.00
40	Ibrahim Khel	Sadiq Khel	0.0	0	0.00
41	Ibrahim Khel	Sarwar Khel	0.0	0	0.00
42	Ibrahim Khel	Tabiban	0.0	0	0.00
43	Ibrahim Khel	Tan Khan Khel	2.0	0	0.00
44	Ibrahim Khel	Walyan	4.0	0	0.00
45	Karmashi		10.0	0	0.00
46	Khan Qala		3.0	0	0.00
47	Khataba	Sadiq Khel	15.0	2	3.00
48	Khataba	Shakar Khel	5.0	0	0.00
49	Khataba	Shekhano Qala	4.0	1	0.05

Appendix I: Orchards and fruit nurseries in Gardez district (Cont..)

S/No	Main village	Sub village	Orchard(J)	Nurseries No.	Nurseries Acreage (J)
50	Khwaja Hassan	Khwaja Hassan Ulya	10.0	0	0.00
51	Khwaja Hassan	Khwaja Hassan Sufla	10.0	0	0.00
52	Kochi Khel		50.0	0	0.00
53	Kwash	Azgana	20.0	0	0.00
54	Kwash	Bar Kwash	20.0	0	0.00
55	Kwash	Koz Kwash	8.0	0	0.00
56	Kwash	Pakhari	0.0	0	0.00
57	Mahmud Qala		8.0	0	0.00
58	Malik Khel		14.0	0	0.00
59	Melan	Doaba	2.0	0	0.00
60	Melan	Habib Qala	10.0	0	0.00
61	Melan	Hajiano Kalay	20.0	0	0.00
62	Melan	Melan	20.0	0	0.00
63	Melan	Shekhan	0.0	0	0.00
64	Mia Noor Qala		100.0	0	0.00
65	Mohd Raza Khel		0.0	0	0.00
66	Mumray		12.0	0	0.00
67	Niazi Qala		8.0	0	0.00
68	Nistikot	Kuz Nistikot	3.0	0	0.00
69	Nistikot	Bar Nistikot	3.0	0	0.00
70	Pushta		12.0	0	0.00
71	Qala-e-Arjal		2.0	0	0.00
72	Qala-e-Dahbashi		2.0	0	0.00
73	Qala-e-Halim		8.0	0	0.00
74	Qala-e-Sarsang		3.0	0	0.00
75	Qala-e-Sayedan		20.0	0	0.00
76	Qala-e-Zargar		10.0	3	4.50
77	Rabat	Rabat	20.0	0	0.00
78	Rabat	Shah-e-Qadam	6.0	0	0.00
79	Sadat Khel		8.0	0	0.00
80	Saidan	Mashayan	4.0	0	0.00
81	Saparai		4.0	0	0.00
82	Sarkary Qala		5.0	0	0.00
83	Sepahi Khel		5.0	0	0.00
84	Shahr-e-Naw		0.0	0	0.00
85	Shekhan		3.0	0	0.00
86	Shekhan		80.0	0	0.00
87	Shekhan		15.0	0	0.00
88	Talbi Khel		2.0	0	0.00
89	Teray	Azad Khan Khel	0.0	0	0.00
90	Teray	Bagho Kalay	0.0	0	0.00
91	Teray	Charmakhkay	6.0	0	0.00
92	Teray	Fazal Qala	3.0	0	0.00
93	Teray	Ghafur Khel	0.0	0	0.00
94	Teray	Kuz Lewan	8.0	0	0.00
95	Teray	Lewanian	4.0	0	0.00
96	Teray	Lewan	7.0	0	0.00
97	Teray	Momin Khel	40.0	0	0.00

Appendix I: Orchards and fruit nurseries in Gardez district (Cont..)

S/No	Main village	Sub village	Orchard(J)	Nurseries No.	Nurseries Acreage (J)
98	Teray	Nawrakay	0.0	0	0.00
99	Teray	Samad Khel	6.0	0	0.00
100	Teray	Spina Qala	2.0	0	0.00
101	Teray	Sra Qala	0.0	0	0.00
102	Teray	Tandan	0.0	0	0.00
103	Teray	Tarkanan	80.0	0	0.00
104	Teray	Woch Khakh	0.0	0	0.00
105	Utmanay		1.0	0	0.00
106	Woch Gharak		3.0	0	0.00
107	Zawa		5.0	1	1.00

Appendix I1: Orchards and fruit nurseries in Sayed Karam district

S/No	Main village	Sub village	Orchard(J)	Nurseries	
				No.	Acreage (J)
1	Ahmad Shah Khel		1.0	0	0.00
2	Andwam		40.0	0	0.00
3	Arab Khel		3.0	0	0.00
4	Ashpan		15.0	0	0.00
5	Bar Sejenak		6.0	2	0.75
6	Bar Sejenak	Alamgay	3.0	0	0.00
7	Batyan Khel		0.0	0	0.00
8	Cher Rakay		5.0	0	0.00
9	Chino	Chino	7.0	1	6.00
10	Chino	Chino Sar	0.0	0	0.00
11	Chino	Durrani	2.0	0	0.00
12	Dam	Ayubi	4.0	0	0.00
13	Dam	Khogory	3.0	0	0.00
14	Dam	Mir Ail Khel	1.0	0	0.00
15	Dawlat Khel		3.0	0	0.00
16	Gharak	Talkhan	4.0	0	0.00
17	Ghonday		3.0	0	0.00
18	Ghwareza		0.0	0	0.00
19	Gud Mangal Qala		10.0	0	0.00
20	Isa Khel		80.0	0	0.00
21	Jangi Khel		10.0	0	0.00
22	Kalgar	Mohd Amin Khel	2.0	0	0.00
23	Kamran Khel		20.0	0	0.00
24	Karezgay		4.0	1	1.00
25	Kerkin	Gorandi Shekhan	20.0	0	0.00
26	Kerkin	Jan Ghunday	8.0	0	0.00
27	Kerkin	Selarai	35.0	0	0.00
28	Kerkin	Sru Kholeh	20.0	0	0.00
29	Kerkin	Sur Petaw	7.0	0	0.00
30	Kerkin	Wocha Lagada	30.0	0	0.00
31	Kerkin Kholeh		10.0	0	0.00
32	Khanak Khel		6.0	0	0.00
33	Khand Khel	Khand Khel	42.0	0	0.00
34	Khand Khel	Lalak Kalay	15.0	0	0.00
35	Khawajar Khel		20.0	0	0.00
36	Kosin	Bar Khano Khel	20.0	0	0.00
37	Kosin	Gorgori Qala	10.0	0	0.00
38	Kosin	Kalgar	100.0	0	0.00
39	Kosin	Khoshal Khel	15.0	0	0.00
40	Kosin	Kuz Khano Khel	0.0	0	0.00
41	Kosin	Masak Karez	1.0	0	0.00
42	Kosin	Shayasta Kalay	3.5	0	0.00
43	Kosin	Shekhan	8.0	0	0.00
44	Kotkay		5.0	0	0.00
45	Koz Feroz Khel		8.0	0	0.00
46	Kunder Khel		3.0	0	0.00
47	Kuz Sejenak	Kuz Sejenak	12.0	0	0.00
48	Kuz Sejenak	Tarai	2.0	0	0.00

Appendix I1: Orchards and fruit nurseries in Sayed Karam District (Cont..)

S/No	Main village	Sub village	Orchard(J)	Nurseries No.	Nurseries Acreage (J)
49	Machal Ghu	Akbar Khel	2.0	0	0.00
50	Machal Ghu	Babakrey	0.0	0	0.00
51	Machal Ghu	Bazu Khel	4.0	0	0.00
52	Machal Ghu	Gandir Khel	1.0	0	0.00
53	Machal Ghu	Godian	0.0	0	0.00
54	Machal Ghu	Hassan Qala	4.0	0	0.00
55	Machal Ghu	Lewan	6.0	0	0.00
56	Machal Ghu	Mado Khel	4.0	0	0.00
57	Machal Ghu	Mamozai	20.0	0	0.00
58	Machal Ghu	Mulla Khel	10.0	0	0.00
59	Machal Ghu	Nagram	1.0	0	0.00
60	Machal Ghu	Nandar Khel	3.0	0	0.00
61	Machal Ghu	Nora Khel	2.0	0	0.00
62	Machal Ghu	Pala Khel	0.0	0	0.00
63	Machal Ghu	Salim Khan Khel	3.0	0	0.00
64	Machal Ghu	Sayed Khel	0.0	0	0.00
65	Machal Ghu	Spina Qala	10.0	0	0.00
66	Machal Ghu	Taro Khel	6.0	0	0.00
67	Machal Ghu	Toor Khel	3.0	0	0.00
68	Machal Ghu	Wach Khakh Qala	6.0	3	1.50
69	Mawroz Khel		4.0	0	0.00
70	Merzaka	Azad Khel	4.0	0	0.00
71	Merzaka	Batay	20.0	0	0.00
72	Merzaka	Chanjay Khwar	6.0	0	0.00
73	Merzaka	Chungay	6.0	0	0.00
74	Merzaka	Garamay	10.0	0	0.00
75	Merzaka	Ghonzay	6.0	0	0.00
76	Merzaka	Hajian	10.0	0	0.00
77	Merzaka	Kajeray	20.0	0	0.00
78	Merzaka	Khalilan	5.0	0	0.00
79	Merzaka	Nora China	4.0	0	0.00
80	Merzakay	Serkay Tanga	4.0	0	0.00
81	Mia Khel		0.0	0	0.00
82	Naray Kalay		1.0	0	0.00
83	Nigram	Ainuddin Qala	11.0	0	0.00
84	Osman Khel	Mach	5.0	2	3.00
85	Osman Khel	Raza Khel	50.0	0	0.00
86	Qader Khel		0.0	0	0.00
87	Shamsherabad		5.0	0	0.00
88	Salam Khel	Afzal Khel	10.0	0	0.00
89	Salam Khel	Bike Khel	3.0	1	0.50
90	Salam Khel	Salu Khel	6.0	0	0.00
91	Salam Khel	Sra Qala	5.0	0	0.00
92	Salam Khel	Sur Sang	5.0	0	0.00
93	Salemi Nargay		3.0	0	0.00
94	Sarwar Qala		3.0	0	0.00
95	Sayed Khel		9.0	0	0.00
96	Serkay Malang		5.0	0	0.00

Appendix I1: Orchards and fruit nurseries in Sayed Karam District (Cont..)

S/No	Main village	Sub village	Orchard(J)	Nurseries No.	Nurseries Acreage (J)
97	Sham Ghunday		10.0	0	0.00
98	Spina Qala		5.0	1	0.50
99	Sur Sangyan		2.0	0	0.00
100	Talbi Khel		2.0	0	0.00
101	Tand Gharak	Ataei Qala	4.0	0	0.00
102	Tand Gharak	Fazal Khel	12.0	0	0.00
103	Tand Gharak	Miw Khel	7.0	0	0.00
104	Tand Gharak	Seway	10.0	0	0.00
105	Tand Gharak	Zundi Khel	15.0	0	0.00
106	Usman Khel	Esa Khel	15.0	0	0.00
107	Usman Khel	Lewanian Khel	15.0	0	0.00
108	Yahya Khel		0.0	0	0.00
109	Yargul Khel		2.0	0	0.00

pendix J: Main crops grown and yield in Gardez district

No	Main village	Sub village	Irr. wheat (S/J)	R_fed wheat (S/J)	Rice (S/J)	Maize (S/J)	Barley (S/J)	Onion (S/J)	Pota toes (S/J)	Toma toes (S/J)	Bean (S/J)	Mung bean (S/J)	Apple (S/T)	Apricot (S/T)	Grape (S/T)	Pomeg-ranates (S/T)	Walnut (S/T)	Mul berry (S/T)
1	Ahangaran		70	0	0	70	0	400	300	0	0	0	8	10	0	0	0	0
2	Asalatbeg		70	0	0	60	0	100	80	0	0	0	0	0	0	0	0	0
3	Atam Kalay		45	0	0	40	0	0	0	3	0	0	0	0	0	0	0	0
4	Awdakay		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Bala Deh	Afzal Khel	70	0	0	50	0	0	220	0	0	0	8	0	0	0	0	0
6	Bala Deh	Bala Deh	70	0	0	65	0	200	320	0	25	0	6	8	0	0	0	0
7	Bala Deh	Raies Khel	70	0	70	65	0	0	280	0	30	0	5	6	0	0	0	0
8	Bala Deh	Rodak	80	0	60	60	0	0	0	0	0	0	15	20	3	0	0	0
9	Banozai	Banozai	70	30	0	0	0	0	100	0	30	0	0	0	0	0	0	0
0	Banozai	Darabal Kalay	90	0	0	70	0	0	0	0	30	20	0	0	0	0	0	0
1	Banozai	Salar Kalay	80	0	0	0	0	0	0	0	25	20	0	0	0	0	0	0
2	Chakan Shekhan		60	20	0	0	0	0	200	0	30	0	0	4	0	0	0	0
3	Chawanay	Metran Khel	80	0	0	65	80	0	0	0	0	0	0	0	0	0	0	0
4	Chawanay	Pahlawan Khel	80	0	0	80	80	0	0	0	30	0	0	0	0	0	0	0
5	Chawanay	Rabati	50	20	0	40	30	0	0	0	0	0	0	0	0	0	0	0
6	Dara		80	0	0	60	0	0	160	0	0	0	0	0	0	0	100	0
7	Dawlatzai	Habib Khel	70	0	0	60	0	0	200	0	20	0	3	4	0	0	0	0
8	Dawlatzai	Laghar	50	0	0	40	0	0	200	0	30	0	0	0	0	0	0	0
9	Dawlatzai	Ali Jan Khel	100	0	0	80	2	0	180	0	30	0	0	3	0	0	0	0
0	Dawlatzai	Dray Plari	60	0	0	60	60	0	0	0	0	0	0	0	0	0	0	0
1	Dawlatzai	Fathullah	60	0	0	120	0	320	240	0	30	0	5	6	2	0	0	0
2	Dawlatzai	Gadai Khel	70	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0
3	Dawlatzai	Gajan	60	0	0	60	0	200	180	0	30	0	0	0	0	0	0	0
4	Dawlatzai	Ghunday Kalay	48	0	0	60	0	0	200	0	0	0	3	4	0	0	0	0
5	Dinar Khel		70	50	0	80	0	300	400	0	0	0	12	15	4	0	8	0
6	Doghabad		70	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0
7	Golo Khel		70	0	0	50	0	0	0	0	12	0	0	0	0	0	0	0
8	Golowall	Bar Golowall	50	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0
9	Golowall	Kuz Golowall	60	0	0	50	0	0	0	0	0	0	0	4	6	0	0	0
0	Hemat Khel		30	0	0	50	0	0	0	0	20	0	2	2	0	0	0	0
1	Ibrahim Khel	Azami Khel	60	0	0	50	50	0	0	0	0	0	0	0	0	0	0	0
2	Ibrahim Khel	Bada Khel	80	0	0	0	70	0	0	0	0	0	0	0	0	0	0	0

pendix J: Main crops grown and yield in Gardez district (Cont..)

No	Main village	Sub village	Irr. wheat (S/J)	R_fed wheat (S/J)	Rice (S/J)	Maize (S/J)	Barley (S/J)	Onion (S/J)	Pota toes (S/J)	Toma toes (S/J)	Bean (S/J)	Mung bean (S/J)	Apple (S/T)	Apricot (S/T)	Grape (S/T)	Pomeg-ranates (S/T)	Walnut (S/T)	Mul berry (S/T)
3	Ibrahim Khel	Ghani Qala	60	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0
4	Ibrahim Khel	Karama Khel	50	20	0	0	30	0	0	0	0	0	0	0	0	0	0	0
5	Ibrahim Khel	Mashad Khel	90	0	0	80	80	0	0	0	0	0	0	0	0	0	0	0
6	Ibrahim Khel	Pakhary	50	0	70	30	0	0	0	0	0	25	0	0	0	0	0	0
7	Ibrahim Khel	Pirzad Khel	80	0	60	75	0	0	0	0	0	0	0	0	0	0	0	0
8	Ibrahim Khel	Rahmat Khel	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Ibrahim Khel	Raza Khel	80	0	0	60	60	0	0	0	0	0	0	0	0	0	0	0
0	Ibrahim Khel	Sadiq Khel	60	0	50	0	30	0	200	0	0	0	0	0	0	0	0	0
1	Ibrahim Khel	Sarwar Khel	100	0	0	90	0	0	0	0	0	0	0	0	0	0	0	0
2	Ibrahim Khel	Tabiban	70	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0
3	Ibrahim Khel	Tan Khan Khel	80	12	0	20	20	0	0	0	0	0	0	0	0	0	0	0
4	Ibrahim Khel	Walyan	80	0	0	70	100	0	0	0	0	40	0	0	0	0	0	0
5	Karmashi		60	0	0	40	0	0	180	0	30	0	0	0	0	0	0	0
6	Khan Qala		60	20	0	40	0	0	0	0	15	0	0	0	0	0	0	0
7	Khataba	Sadiq Khel	70	0	0	65	150	300	0	0	0	0	6	10	0	0	0	0
8	Khataba	Shakar Khel	70	0	0	80	200	350	0	0	0	0	3	5	0	0	0	0
9	Khataba	Shekhano Qala	50	0	0	0	0	0	0	0	0	0	4	5	0	0	0	0
0	Khwaja Hassan	Khwaja Hasan Ulya	70	0	0	80	150	250	0	0	0	0	7	10	0	0	0	0
1	Khwaja Hassan	Khwaja Hasan Sufla	60	0	0	50	0	0	100	0	0	0	5	10	0	0	0	0
2	Kochi Khel		70	0	80	65	0	200	350	0	30	0	5	8	0	0	0	0
3	Kwash	Azgana	100	0	0	80	0	0	0	0	30	0	2	5	0	0	0	0
4	Kwash	Bar Kwash	80	0	0	50	0	0	0	0	25	0	0	3	0	0	0	0
5	Kwash	Koz Kwash	70	0	0	60	0	0	0	0	25	0	0	0	0	0	0	0
6	Kwash	Pakhari	60	0	0	50	0	0	0	0	20	0	0	0	0	0	0	0
7	Mahmud Qala		50	0	0	50	0	0	0	0	10	0	0	5	0	0	0	0
8	Malik Khel		60	0	0	50	0	0	350	0	0	0	10	12	0	0	0	0
9	Melan	Doaba	60	0	0	50	0	0	300	0	20	0	0	0	0	0	0	0
0	Melan	Habib Qala	60	15	0	50	0	0	0	0	20	0	0	0	0	0	0	0
1	Melan	Hajiano Kalay	50	0	0	70	0	280	400	0	40	0	0	5	0	0	0	0
2	Melan	Melan	50	15	0	40	0	0	250	0	18	0	0	0	0	0	0	0
3	Melan	Shekhan	50	0	0	40	0	0	240	0	20	0	0	0	0	0	0	0
4	Mia Noor Qala		60	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0

Potatoes	56	195	
Tomatoes	1	240	
Barley	3	67	
Bean	21	25	
Apple	51		6
Apricot	63		7
Grape	1		1
Walnut	9		6

3.3 Products for Marketing

The main marketable products in the area are maize, wheat, beans, apples, apricots, walnuts, onions, potatoes. Animals like cattle, cows, donkeys, goats, oxen, sheep and horses are also raised for the market (for the other marketable products see Table 3.5 and Appendix K-K1).

Table 3.5: Products taken to market

Gardez		Sayed Karam	
List of Products	No. of villages replied	List of Products	No. of villages replied
Barley	16	Barley	3
Maize	3	Bean	18
Rice	2	Mung Bean	1
Wheat	5	Apple	30
Bean	30	Apricot	27
Lentle	1	Walnut	9
Mung Bean	12	Carrot	1
Almond	2	Onion	10
Apple	20	Potato	33
Apricot	16	Tomato	1
Grape	2	Cattle	15
Walnut	1	Cow	58
Watermelon	3	Donkey	13
Cucumber	1	Goat	58
Onion	14	Oxen	1
Potato	33	Sheep	78
Cattle	6	Chicken	3
Cow	44	Hashish	6
Donkey	8	Wood	2
Goat	52	Wool	11
Sheep	72		
Chicken	2		
Hashish	3		
Wool	11		

SUMMARY AND CONCLUSION

The United Nations Office for Project Services/Afghanistan Rural Rehabilitation Programme (UNOPS/ARRP) commissioned the Baseline Survey to the Agency Coordinating Body for Afghan Relief, Survey Unit (ACBAR/ASU) to provide basic information about target areas. The main goal of the survey was to enable UN and other development agencies to better target rehabilitation programmes in Afghanistan. The survey is the most systematic attempt so far to identify the most urgent needs while tracking repatriation to particular areas in Afghanistan.

This survey is the continuation of the Azra Initiative, which was initiated in 1997. After the rehabilitation of Azra and Tezin areas, United Nations selected four new districts (Hesarak, Khak-e-Jabar, Gardez and Sayed Karam) for focused assistance due to potential high refugee return.

The survey was conducted during June 2000 in order to provide baseline data about population and shelter status, repatriation, health and education facilities, existence of land mines, agricultural production and productivity, illicit crop production, livestock and poultry, type and status of irrigation systems and income generation activities (see Appendix A).

Survey data was gathered on a village basis through group interviews with village and tribal elders, landowners, and other important and knowledgeable individuals.

The results of the survey are as follows:

GENERAL INFORMATION

Population

- The number of families present at the time of survey was 12,346. A total of 1,392 nomad families were regularly visiting the surveyed areas. A total of 1,273 disabled people and 727 widows were found in the survey area.

Repatriation

- The survey concluded that a total of 8,949 refugee and IDP households have returned to the surveyed areas, while another 857 households have moved to the areas from other places in Afghanistan. However, 15,930 families are still refugee or displaced. Lack of houses and employment opportunity were reported as the major problems in the way of successful repatriation. Damaged irrigation system, lack of food, school, road and clinics were the other problems cited by the villagers.

Housing Status

- A total of 10,419 houses were reported in Gardez and Sayed Karam districts, of which 4,064 were undamaged, 3,990 were damaged and 2,365 were destroyed.

Drinking water sources

- Open wells and karezes were reported to be the main sources of drinking water, followed by covered wells and springs.

Access Road and Transportation

- Access roads were reported in all villages except Pakhari village of Gardez district. The status of most roads is reported as fairly good, however 40 villages cited the status of their roads as bad. Vehicles and donkeys are the most important means of transportation in all areas surveyed.

AGRICULTURE

Farm Size

- Of 128,266 jeribs of arable land in the surveyed area, 68,096 jeribs is irrigated and 60,170 jeribs is rainfed. A total of 57,007 jeribs of arable land was cultivated last year, while 71,259 jeribs of land was abandoned. The system of double cropping is not common at all in the surveyed area.

- Shortage of irrigation water, lack of farm power, existence of land mines and flood are reported as the main reasons for land abandonment.

- A total of 2,020 jeribs of land was under orchard. 31 fruit and five forest nurseries are reported in the surveyed villages.

Main crops grown

- The main crops in the surveyed area are irrigated wheat, maize, potato and onion which were grown in 213, 179, 95, and 28 villages in that order. Apricots and apples were grown in 102 and 81villages, respectively.

Products for Marketing

- Maize, wheat, beans, apples, apricots, walnuts, onions, potatoes, cattle, cows, donkeys, goats, oxen, sheep and horses are the main products taken to the market.

Improved seed, Fertilizer and Agrochemical

- Farmers reported planting improved wheat seed in 71 villages, maize improved seed in 22 villages. Use of improved rice seed was not reported in the surveyed area. Use of fertilizers such as DAP, Nitrophos and Urea was cited by 172 villages. The application of agrochemical was recorded in 30 villages.

Farm Power

- 88 oxen, 896 tractors and 63 threshers were available in the whole survey area.

ILLICIT CROP PRODUCTION

- No opium growing was reported in Gardez and Sayed Karam districts. However, growing of hashish was reported by 15 villages on a total of 152 hectares with an average yield of 2.5 kg/hectares. A total of 19 hashish addicts were reported in the surveyed area. The main reasons for growing illicit crop were reported to be more income and the low water requirement.

IRRIGATION WATER SOURCES

- Karezes and canals/streams were reported as the main sources of irrigation water in Gardez, while in Sayed Karam district spring water followed by karez water

were counted as the main sources of irrigation. Almost all of the villages complained for the shortage of water due to the drought.

LIVESTOCK AND POULTRY

- After farming, animal husbandry was the major agricultural activity. A total of 18,524 cattle, 43,268 sheep and goats, 5,647 donkeys, three camels and three horses were recorded in all the areas under survey. There was an average of 10 chickens per family in Gardez and Sayed Karam.

EDUCATION

- A total of 49 schools were reported in the surveyed area where 7,590 boys and 620 girls are taught by 167 male teachers. These schools are either funded by the government or by NGOs such as CARE, IRC, LDI and SCA. There are 4,118 children aged 6-14 who have not attended school. The survey found eight madrassas functioning in Gardez and Sayed Karam districts where 1,112 students are studying.

HEALTH

- Only four clinics were found in Gardez and Sayed Karam districts where 16 doctors and 16 nurses were working. 130 midwives were serving in the surveyed areas. Bronchitis, diarrhoea, malaria, pneumonia, flue and typhoid were the main diseases.

LAND MINES

- The existence of mines is confirmed in roads, agricultural land, forests near villages, grazing land near villages and mountains. There were a total of 321 land mine casualties during the whole war period.

INCOME GENERATION

- A total of 2,488 skilled people were busy in different fields as blacksmiths, carpenters, cobblers, daily workers, drivers, embroiders, masons, mechanics, potters, tailors and watch makers. Harvesting wheat and hashish, ploughing and threshing were recorded as the main seasonal productive activities.

MARKET AND MARKET PRICES

- A total of 287 shops were found in the surveyed area. Those shops included bakeries, blacksmith shops, medical stores, oil shops, vegetable shops and wood shops.

UN AGENCIES/NGOs ACTIVITIES

- A total of 15 governmental and non-governmental organizations in Gardez and 16 were functioning in Sayed Karam districts (For their name and activities see Appendix Y).

BASELINE SURVEY OF GARDEZ AND SAYED KARAM DISTRICTS

PAKTIA PROVINCE

June 2000

Prepared for:

United Nations Office for Project Services
Afghanistan Rural Rehabilitation Program
(UNOPS/ARRP)

Prepared by:

Agency Coordinating Body for Afghan Relief
Survey Unit, Peshawar

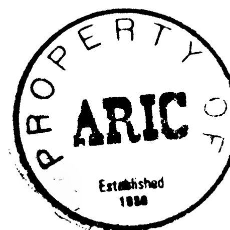
Funded by Government of Japan

August 2000

BASELINE SURVEY OF GARDEZ AND SAYED KARAM DISTRICTS

PAKTIA PROVINCE

June 2000



Prepared for:

United Nations Office for Project Services
Afghanistan Rural Rehabilitation Program
(UNOPS/ARRP)

Prepared by:

Agency Coordinating Body for Afghan Relief
Survey Unit, Peshawar

Funded by Government of Japan

August 2000

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

ABBREVIATIONS, WEIGHTS AND MEASUREMENTS

ACBAR	Agency Coordinating Body for Afghan Relief
ARRP	Afghanistan Rural Rehabilitation Programme
ASU	ACBAR Survey Unit
ATC	Afghan Technical Consultants
Avg.	Average
CARE	Care International
DACAAR	Danish Committee for Aid to Afghan Refugees
FAO	Food and Agriculture Organization of the United Nations
GAF	German Afghan Foundation
IDP	Internally Displaced People
ICRC	International Committee for Red Crescent
IRC	International Rescue Committee
Irr.	Irrigated
J	Jerib
LDI	Lajnat ul Dawatul Islamia
MARUF	Multi Activity Rural Rehabilitation Foundation
MDC	Mine Dog Center
KNF	Koh-I-Noor foundation
NAC	Norwegian Afghanistan Committee
NGO	Non Governmental Organization
NPO/RRAA	Norwegian Project Office
OMAR	Organization for Mine Awareness and Rehabilitation
ProMIS	Program Management Information System
RAFA	Reconstruction Authority for Afghanistan
RRD	Rehabilitation and Rural Department
Rain.	Rainfed
S	Seer
SCA	Swedish Committee for Afghanistan
T	Tree
TB	Tuberculosis
UNHCR	United Nations High Commission for Refugees
UNICEF	United Nations Children Fund
UNOPS	United Nations Office for Project Services
WHO	World Health Organization

1 seer = 7 kg
1 ha = 0.2 Jeribs
1 Rs = Afs. 1,100*
1 $ US = Afs. 62,000*

*These rates are unstable.

ACKNOWLEDGEMENTS

This survey and report were prepared under contract to the United Nations Office for Project Services/Afghanistan Rural Rehabilitation Programme (UNOPS/ARRP) by the Agency Coordinating Body for Afghan Relief, Survey Unit (ACBAR/ASU).

Thanks go to Mr. Ahmed Hussain, Acting Programme Manager and Mr. Shafiq Ahmad Qarizada, Programme Officer (UNOPS/ARRP) who cooperated in finalizing the survey questionnaire.

The initial design of the Baseline Survey questionnaire was produced by ASU, discussed and finally cleared by UNOPS/ARRP.

M. Omar Anwarzay, ACBAR Survey Unit Manager, trained the surveyors and organized the field survey. ASU Field Coordinator, Sultan Mohammad, visited survey areas and supervised the survey's progress. A total of three supervisors (Mohd.Alem, Azizullah and Mohd. Gul) and six enumerators (Abdul Wahab, Abdul Satar, Fakhruddin, Kesher Khan, Habib ul Rahman and Sayed Luqman) conducted the field survey. Marzia Wardak, Report Writer, wrote the text, figures and tables of this report. Database and designing of form for the data entry, data analysis, and processing were completed by Abdul Rahman, Data Analyst/Computer Programmer; Eng. Shahabuddin, Mohammad Salam and Qudratullah, Computer Operators.

ACBAR would like to thank all the farmers, village elders, and local governing authorities who participated and cooperated in this survey, the results of which are consolidated in this report.

Chris Cork
Executive Director, ACBAR

Postal Address: U.P.O. Box 1084
Peshawar, Pakistan
Office Address: 2 Rahman Baba Road, University Town,
Peshawar, Pakistan
Tel: (091) 44392/40839
Fax: (091) 840471
E-Mail:director@acbar.psh.brain.net.pk